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## Technical Report for

**Chevron USA, Inc.**

**TASMCOA: Cache 17-52**

**10588; PO#UWRWE-A5144-AES**

**SGS Job Number: DA73406**

**Sampling Date: 07/02/25**

### Report to:

**Chevron USA, Inc.**  
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**ATTN: Eric Vonde**

**Total number of pages in report: 79**



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: Joseph Rhoades 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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## Sample Summary

Chevron USA, Inc.

**Job No:** DA73406

TASMCOA: Cache 17-52

Project No: 10588; PO#UWRWE-A5144-AES

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

DA73406-1	07/02/25	11:45	EC	07/02/25	SO	Soil	FL01-01@2.5'
DA73406-1A	07/02/25	11:45	EC	07/02/25	SO	Soil	FL01-01@2.5'
DA73406-1B	07/02/25	11:45	EC	07/02/25	SO	Soil	FL01-01@2.5'
DA73406-2	07/02/25	11:55	EC	07/02/25	SO	Soil	FL01-02@2.5'
DA73406-2A	07/02/25	11:55	EC	07/02/25	SO	Soil	FL01-02@2.5'
DA73406-2B	07/02/25	11:55	EC	07/02/25	SO	Soil	FL01-02@2.5'

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** DA73406  
**Account:** Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52  
**Collected:** 07/02/25

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**DA73406-1 FL01-01@2.5'**

Arsenic	2.8	0.10			mg/kg	SW846 6020B
Barium	55.5	1.0			mg/kg	SW846 6020B
Copper	2.0	1.0			mg/kg	SW846 6020B
Lead	3.8	0.25			mg/kg	SW846 6020B
Nickel	2.4	1.0			mg/kg	SW846 6020B
Zinc	8.8	5.0			mg/kg	SW846 6020B
pH	7.50				su	WREP-125,4E-SATPASTE
Specific Conductivity	1.9	0.0010			mmhos/cm	SM 2510B-2011 MOD

**DA73406-1A FL01-01@2.5'**

Calcium	45.2	6.0			mg/l	SW846 6010C
Magnesium	6.87	3.0			mg/l	SW846 6010C
Sodium Adsorption Ratio <sup>a</sup>	0.149				ratio	USDA HANDBOOK 60

**DA73406-1B FL01-01@2.5'**

No hits reported in this sample.

**DA73406-2 FL01-02@2.5'**

Arsenic	2.1	0.10			mg/kg	SW846 6020B
Barium	41.3	1.0			mg/kg	SW846 6020B
Copper	2.0	1.0			mg/kg	SW846 6020B
Lead	2.8	0.26			mg/kg	SW846 6020B
Nickel	2.2	1.0			mg/kg	SW846 6020B
Zinc	9.5	5.2			mg/kg	SW846 6020B
pH	7.26				su	WREP-125,4E-SATPASTE
Specific Conductivity	0.21	0.0010			mmhos/cm	SM 2510B-2011 MOD

**DA73406-2A FL01-02@2.5'**

Calcium	101	6.0			mg/l	SW846 6010C
Magnesium	40.9	3.0			mg/l	SW846 6010C
Sodium	9.30	6.0			mg/l	SW846 6010C
Sodium Adsorption Ratio <sup>a</sup>	0.197				ratio	USDA HANDBOOK 60

**DA73406-2B FL01-02@2.5'**

No hits reported in this sample.

(a) Calculated as:  $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

Sample Results

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Report of Analysis

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## Report of Analysis

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<b>Client Sample ID:</b> FL01-01@2.5'	
<b>Lab Sample ID:</b> DA73406-1	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 97.6
<b>Project:</b> TASMCOA: Cache 17-52	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V36882.D	1	07/10/25 00:14	MB	n/a	n/a	V4V1858
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.21 g	5.0 ml
Run #2		

### VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.00098	0.00049	mg/kg	
100-41-4	Ethylbenzene	ND	0.0020	0.00049	mg/kg	
108-88-3	Toluene	ND	0.0020	0.00098	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00088	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00088	mg/kg	
	m,p-Xylene	ND	0.0020	0.0018	mg/kg	
95-47-6	o-Xylene	ND	0.0020	0.00069	mg/kg	
1330-20-7	Xylene (total)	ND	0.0020	0.0018	mg/kg	
	TPH-GRO (C6-C10)	ND	0.20	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	109%		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



## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> FL01-01@2.5'	
<b>Lab Sample ID:</b> DA73406-1	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
<b>Method:</b> SW846-8015C SW846 3570	<b>Percent Solids:</b> 97.6
<b>Project:</b> TASMCOA: Cache 17-52	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW44526.D	1	07/04/25 00:59	JB	07/03/25 10:00	OP27983	GLW1035
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

### DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	3.8	3.6	mg/kg	
	TPH-ORO (> C28-C36)	ND	5.7	4.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		20-142%

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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

## Report of Analysis

<b>Client Sample ID:</b> FL01-01@2.5'	
<b>Lab Sample ID:</b> DA73406-1	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 97.6
<b>Project:</b> TASMCOA: Cache 17-52	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.8	0.10	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	55.5	1.0	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.050	0.050	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	2.0	1.0	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	3.8	0.25	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Nickel	2.4	1.0	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 0.20	0.20	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.050	0.050	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	8.8	5.0	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>2</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA19337
- (2) Instrument QC Batch: MA19341
- (3) Prep QC Batch: MP41813

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-01@2.5'	<b>Date Sampled:</b> 07/02/25
<b>Lab Sample ID:</b> DA73406-1	<b>Date Received:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.6
<b>Project:</b> TASMCOA: Cache 17-52	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
<b>%solids</b>							
Solids, Percent	97.6		%	1	07/03/25	JL	SM2540G-2011 M
<b>pH-saturated paste method</b>							
pH	7.50		su	1	07/09/25 10:22	SG	WREP-125,4E-SATPASTE
<b>prep: DEPT.OF AG, BOOK N9</b>							
Specific Conductivity	1.9	0.0010	mmhos/cm	1	07/09/25 09:38	SG	SM 2510B-2011 MOD
Chromium, Hexavalent <sup>a</sup>	< 0.41	0.41	mg/kg	1	07/14/25 16:35	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-01@2.5'	
<b>Lab Sample ID:</b> DA73406-1A	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 97.6
<b>Project:</b> TASMCOA: Cache 17-52	

### SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	45.2	6.0	mg/l	1	07/10/25	07/11/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Magnesium	6.87	3.0	mg/l	1	07/10/25	07/11/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Sodium	< 6.0	6.0	mg/l	1	07/10/25	07/11/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>

(1) Instrument QC Batch: MA19340

(2) Prep QC Batch: MP41867

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-01@2.5'	
<b>Lab Sample ID:</b> DA73406-1A	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 97.6
<b>Project:</b> TASMCOA: Cache 17-52	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio <sup>a</sup>	0.149		ratio	1	07/11/25 08:29	BR	USDA HANDBOOK 60

(a) Calculated as:  $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

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RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-01@2.5'	
<b>Lab Sample ID:</b> DA73406-1B	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 97.6
<b>Project:</b> TASMCOA: Cache 17-52	

### Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.50	0.50	mg/l	1	07/09/25	07/10/25 BR	SW846 6010C <sup>1</sup>	HWS-B <sup>2</sup>

(1) Instrument QC Batch: MA19340

(2) Prep QC Batch: MP41812

---

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-02@2.5'	
<b>Lab Sample ID:</b> DA73406-2	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 94.3
<b>Project:</b> TASMCOA: Cache 17-52	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V92213.D	1	07/10/25 01:44	MB	n/a	n/a	V5V4429
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.08 g	5.0 ml
Run #2		

### VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00052	mg/kg	
100-41-4	Ethylbenzene	ND	0.0021	0.00052	mg/kg	
108-88-3	Toluene	ND	0.0021	0.0010	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0021	0.00094	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0021	0.00094	mg/kg	
	m,p-Xylene	ND	0.0021	0.0019	mg/kg	
95-47-6	o-Xylene	ND	0.0021	0.00073	mg/kg	
1330-20-7	Xylene (total)	ND	0.0021	0.0019	mg/kg	
	TPH-GRO (C6-C10)	ND	0.21	0.13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		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



## Report of Analysis

3.4  
3

<b>Client Sample ID:</b> FL01-02@2.5'	
<b>Lab Sample ID:</b> DA73406-2	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
<b>Method:</b> SW846-8015C SW846 3570	<b>Percent Solids:</b> 94.3
<b>Project:</b> TASMCOA: Cache 17-52	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW44527.D	1	07/04/25 01:15	JB	07/03/25 10:00	OP27983	GLW1035
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

### DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	4.1	3.9	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.1	5.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		20-142%

---

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

## Report of Analysis

<b>Client Sample ID:</b> FL01-02@2.5'	
<b>Lab Sample ID:</b> DA73406-2	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 94.3
<b>Project:</b> TASMCOA: Cache 17-52	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.1	0.10	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	41.3	1.0	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium	< 0.052	0.052	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper	2.0	1.0	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead	2.8	0.26	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Nickel	2.2	1.0	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium	< 0.21	0.21	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver	< 0.052	0.052	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc	9.5	5.2	mg/kg	5	07/03/25	07/10/25 GS	SW846 6020B <sup>2</sup>	SW846 3050B <sup>3</sup>

- (1) Instrument QC Batch: MA19337
- (2) Instrument QC Batch: MA19341
- (3) Prep QC Batch: MP41813

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-02@2.5'	<b>Date Sampled:</b> 07/02/25
<b>Lab Sample ID:</b> DA73406-2	<b>Date Received:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.3
<b>Project:</b> TASMCOA: Cache 17-52	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
<b>%solids</b>							
Solids, Percent	94.3		%	1	07/03/25	JL	SM2540G-2011 M
<b>pH-saturated paste method</b>							
pH	7.26		su	1	07/09/25 10:22	SG	WREP-125,4E-SATPASTE
<b>prep: DEPT.OF AG, BOOK N9</b>							
Specific Conductivity	0.21	0.0010	mmhos/cm	1	07/09/25 09:38	SG	SM 2510B-2011 MOD
Chromium, Hexavalent <sup>a</sup>	< 0.41	0.41	mg/kg	1	07/14/25 16:43	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-02@2.5'	
<b>Lab Sample ID:</b> DA73406-2A	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 94.3
<b>Project:</b> TASMCOA: Cache 17-52	

### SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	101	6.0	mg/l	1	07/10/25	07/11/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Magnesium	40.9	3.0	mg/l	1	07/10/25	07/11/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Sodium	9.30	6.0	mg/l	1	07/10/25	07/11/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>

(1) Instrument QC Batch: MA19340

(2) Prep QC Batch: MP41867

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-02@2.5'	
<b>Lab Sample ID:</b> DA73406-2A	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 94.3
<b>Project:</b> TASMCOA: Cache 17-52	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio <sup>a</sup>	0.197		ratio	1	07/11/25 08:34	BR	USDA HANDBOOK 60

(a) Calculated as:  $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

---

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL01-02@2.5'	
<b>Lab Sample ID:</b> DA73406-2B	<b>Date Sampled:</b> 07/02/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/02/25
	<b>Percent Solids:</b> 94.3
<b>Project:</b> TASMCOA: Cache 17-52	

### Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.50	0.50	mg/l	1	07/09/25	07/10/25 BR	SW846 6010C <sup>1</sup>	HWS-B <sup>2</sup>

(1) Instrument QC Batch: MA19340

(2) Prep QC Batch: MP41812

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RL = Reporting Limit

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



## SGS Sample Receipt Summary

Job Number: da73406

Client: TASMAN

Project: CACHE 17-52 FLOWLINE

Date / Time Received: 7/2/2025 3:45:00 PM

Delivery Method: hd

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: 7/2/2025 3:48:24 PM

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

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

DA73406: Chain of Custody

Page 2 of 2

4.1  
4

MS Volatiles

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:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4429-MB	5V92206.D	1	07/09/25	MB	n/a	n/a	V5V4429

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.90	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.90	ug/kg	
	m,p-Xylene	ND	2.0	1.8	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.8	ug/kg	
	TPH-GRO (C6-C10)	ND	200	120	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	110%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	105%	70-130%

## Method Blank Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V1858-MB	4V36880.D	1	07/09/25	MB	n/a	n/a	V4V1858

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.90	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.90	ug/kg	
	m,p-Xylene	ND	2.0	1.8	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.8	ug/kg	
	TPH-GRO (C6-C10)	ND	200	120	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	109%	70-130%
2037-26-5	Toluene-D8	95%	70-130%
460-00-4	4-Bromofluorobenzene	90%	70-130%
17060-07-0	1,2-Dichloroethane-D4	103%	70-130%

# Blank Spike Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4429-BS	5V92204.D	1	07/09/25	MB	n/a	n/a	V5V4429

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	53.7	107	70-130
100-41-4	Ethylbenzene	50	50.2	100	70-130
108-88-3	Toluene	50	51.7	103	70-130
95-63-6	1,2,4-Trimethylbenzene	50	48.8	98	70-130
108-67-8	1,3,5-Trimethylbenzene	50	49.6	99	70-130
	m,p-Xylene	100	101	101	70-130
95-47-6	o-Xylene	50	50.6	101	70-130
1330-20-7	Xylene (total)	150	151	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	103%	70-130%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4429-BS	5V92205.D	1	07/09/25	MB	n/a	n/a	V5V4429

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2000	2230	112	50-200

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%
17060-07-0	1,2-Dichloroethane-D4	103%	70-130%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V1858-BS	4V36878.D	1	07/09/25	MB	n/a	n/a	V4V1858

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	52.9	106	70-130
100-41-4	Ethylbenzene	50	51.4	103	70-130
108-88-3	Toluene	50	52.1	104	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.4	107	70-130
108-67-8	1,3,5-Trimethylbenzene	50	55.3	111	70-130
	m,p-Xylene	100	103	103	70-130
95-47-6	o-Xylene	50	55.4	111	70-130
1330-20-7	Xylene (total)	150	159	106	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	110%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	109%	70-130%
17060-07-0	1,2-Dichloroethane-D4	108%	70-130%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V1858-BS	4V36879.D	1	07/09/25	MB	n/a	n/a	V4V1858

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2000	2130	107	50-200

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	70-130%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA73409-6MS	5V92209.D	1	07/10/25	MB	n/a	n/a	V5V4429
DA73409-6MSD	5V92210.D	1	07/10/25	MB	n/a	n/a	V5V4429
DA73409-6	5V92207.D	1	07/09/25	MB	n/a	n/a	V5V4429

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-2

CAS No.	Compound	DA73409-6 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	< 1.1	54.7	49.5	91	57.1	50.8	89	3	43-130/30
100-41-4	Ethylbenzene	< 2.2	54.7	46.8	86	57.1	48.6	85	4	15-145/30
108-88-3	Toluene	< 2.2	54.7	47.6	87	57.1	49.5	87	4	37-130/30
95-63-6	1,2,4-Trimethylbenzene	< 2.2	54.7	42.1	77	57.1	43.6	76	4	5-177/30
108-67-8	1,3,5-Trimethylbenzene	< 2.2	54.7	45.0	82	57.1	47.9	84	6	6-159/30
	m,p-Xylene	< 2.2	109	93.4	85	114	95.2	83	2	21-142/30
95-47-6	o-Xylene	< 2.2	54.7	47.9	88	57.1	48.8	85	2	25-140/30
1330-20-7	Xylene (total)	< 2.2	164	141	86	171	144	84	2	17-142/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73409-6	Limits
1868-53-7	Dibromofluoromethane	111%	110%	112%	70-130%
2037-26-5	Toluene-D8	97%	99%	98%	70-130%
460-00-4	4-Bromofluorobenzene	97%	100%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	107%	102%	104%	70-130%

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA73404-1MS	4V36883.D	1	07/10/25	MB	n/a	n/a	V4V1858
DA73404-1MSD	4V36884.D	1	07/10/25	MB	n/a	n/a	V4V1858
DA73404-1	4V36881.D	1	07/09/25	MB	n/a	n/a	V4V1858

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-1

CAS No.	Compound	DA73404-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	< 1.1	49.3	47.7	97	51.4	49.4	96	4	43-130/30
100-41-4	Ethylbenzene	< 2.2	49.3	45.2	92	51.4	47.6	93	5	15-145/30
108-88-3	Toluene	< 2.2	49.3	45.4	92	51.4	47.8	93	5	37-130/30
95-63-6	1,2,4-Trimethylbenzene	< 2.2	49.3	47.0	95	51.4	50.6	98	7	5-177/30
108-67-8	1,3,5-Trimethylbenzene	< 2.2	49.3	49.2	100	51.4	53.6	104	9	6-159/30
	m,p-Xylene	< 2.2	98.6	90.3	92	103	95.5	93	6	21-142/30
95-47-6	o-Xylene	< 2.2	49.3	49.9	101	51.4	51.8	101	4	25-140/30
1330-20-7	Xylene (total)	< 2.2	148	140	95	154	147	95	5	17-142/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73404-1	Limits
1868-53-7	Dibromofluoromethane	113%	113%	111%	70-130%
2037-26-5	Toluene-D8	98%	101%	96%	70-130%
460-00-4	4-Bromofluorobenzene	102%	103%	92%	70-130%
17060-07-0	1,2-Dichloroethane-D4	105%	108%	102%	70-130%

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA73409-7MS	5V92211.D	1	07/10/25	MB	n/a	n/a	V5V4429
DA73409-7MSD	5V92212.D	1	07/10/25	MB	n/a	n/a	V5V4429
DA73409-7	5V92208.D	1	07/09/25	MB	n/a	n/a	V5V4429

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-2

CAS No.	Compound	DA73409-7 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	< 220	2180	1240	57	2170	912	42	30	5-200/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73409-7	Limits
1868-53-7	Dibromofluoromethane	111%	108%	111%	70-130%
2037-26-5	Toluene-D8	96%	99%	98%	70-130%
460-00-4	4-Bromofluorobenzene	103%	102%	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	107%	107%	108%	70-130%

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA73406-1MS	4V36885.D	1	07/10/25	MB	n/a	n/a	V4V1858
DA73406-1MSD	4V36886.D	1	07/10/25	MB	n/a	n/a	V4V1858
DA73406-1	4V36882.D	1	07/10/25	MB	n/a	n/a	V4V1858

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73406-1

CAS No.	Compound	DA73406-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	2030	1950	96	1850	1690	92	14	5-200/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73406-1	Limits
1868-53-7	Dibromofluoromethane	110%	111%	114%	70-130%
2037-26-5	Toluene-D8	96%	95%	95%	70-130%
460-00-4	4-Bromofluorobenzene	92%	91%	90%	70-130%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	109%	70-130%

\* = Outside of Control Limits.

5.3.4  
5

MS 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:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27995-MB	7G002269.D	1	07/08/25	TH	07/08/25	OP27995	E7G85

The QC reported here applies to the following samples:

Method: SW846 8270E

DA73406-1, DA73406-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	2.0	ug/kg	
120-12-7	Anthracene	ND	4.0	2.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	5.0	3.0	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.0	2.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.0	2.0	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.0	2.0	ug/kg	
218-01-9	Chrysene	ND	4.0	2.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	2.0	ug/kg	
206-44-0	Fluoranthene	ND	4.0	2.0	ug/kg	
86-73-7	Fluorene	ND	4.0	2.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.0	2.0	ug/kg	
90-12-0	1-Methylnaphthalene	ND	4.0	2.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	2.0	1.5	ug/kg	
129-00-0	Pyrene	ND	4.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
321-60-8	2-Fluorobiphenyl	72%	10-130%
4165-60-0	Nitrobenzene-d5	68%	10-130%
1718-51-0	Terphenyl-d14	77%	10-130%

# Blank Spike Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27995-BS	7G002270.D	1	07/08/25	TH	07/08/25	OP27995	E7G85

The QC reported here applies to the following samples:

Method: SW846 8270E

DA73406-1, DA73406-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	200	167	84	31-130
120-12-7	Anthracene	200	163	82	46-134
56-55-3	Benzo(a)anthracene	200	149	75	52-135
205-99-2	Benzo(b)fluoranthene	200	168	84	50-136
207-08-9	Benzo(k)fluoranthene	200	166	83	52-134
50-32-8	Benzo(a)pyrene	200	156	78	50-130
218-01-9	Chrysene	200	164	82	51-131
53-70-3	Dibenzo(a,h)anthracene	200	163	82	49-136
206-44-0	Fluoranthene	200	165	83	51-137
86-73-7	Fluorene	200	158	79	38-130
193-39-5	Indeno(1,2,3-cd)pyrene	200	166	83	50-139
90-12-0	1-Methylnaphthalene	200	151	76	18-130
91-57-6	2-Methylnaphthalene	200	147	74	16-130
91-20-3	Naphthalene	200	154	77	5-130
129-00-0	Pyrene	200	168	84	48-136

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	73%	10-130%
4165-60-0	Nitrobenzene-d5	70%	10-130%
1718-51-0	Terphenyl-d14	78%	10-130%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27995-MS	7G002271.D	1	07/08/25	TH	07/08/25	OP27995	E7G85
OP27995-MSD	7G002272.D	1	07/08/25	TH	07/08/25	OP27995	E7G85
DA73404-5	7G002273.D	1	07/08/25	TH	07/08/25	OP27995	E7G85

The QC reported here applies to the following samples:

Method: SW846 8270E

DA73406-1, DA73406-2

CAS No.	Compound	DA73404-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	< 5.3	266	218	82	277	213	77	2	12-130/52
120-12-7	Anthracene	< 5.3	266	214	81	277	214	77	0	31-130/60
56-55-3	Benzo(a)anthracene	< 6.6	266	198	75	277	197	71	1	34-130/60
205-99-2	Benzo(b)fluoranthene	< 5.3	266	219	82	277	217	78	1	10-168/60
207-08-9	Benzo(k)fluoranthene	< 5.3	266	222	84	277	218	79	2	30-130/60
50-32-8	Benzo(a)pyrene	< 5.3	266	208	78	277	207	75	0	10-179/60
218-01-9	Chrysene	< 5.3	266	214	81	277	219	79	2	34-130/60
53-70-3	Dibenzo(a,h)anthracene	< 5.3	266	218	82	277	217	78	0	20-138/60
206-44-0	Fluoranthene	< 5.3	266	217	82	277	217	78	0	32-130/60
86-73-7	Fluorene	< 5.3	266	211	79	277	207	75	2	20-130/60
193-39-5	Indeno(1,2,3-cd)pyrene	< 5.3	266	216	81	277	215	78	0	17-148/60
90-12-0	1-Methylnaphthalene	< 5.3	266	195	73	277	197	71	1	10-130/41
91-57-6	2-Methylnaphthalene	< 5.3	266	194	73	277	196	71	1	14-130/40
91-20-3	Naphthalene	< 2.7	266	199	75	277	203	73	2	10-130/40
129-00-0	Pyrene	< 5.3	266	222	84	277	227	82	2	31-130/60

CAS No.	Surrogate Recoveries	MS	MSD	DA73404-5	Limits
321-60-8	2-Fluorobiphenyl	65%	65%	49%	10-130%
4165-60-0	Nitrobenzene-d5	70%	77%	69%	10-130%
1718-51-0	Terphenyl-d14	74%	70%	74%	10-130%

\* = Outside of Control Limits.

GC/LC Semi-volatiles

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:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27983-MB	LW44506.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73406-1, DA73406-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	4.0	3.8	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.0	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	102% 20-142%

# Blank Spike Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27983-BS	LW44507.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73406-1, DA73406-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	200	171	86	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	87%	20-142%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27983-BS2	LW44508.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73406-1, DA73406-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-ORO (> C28-C36)	200	224	112	70-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	83%	20-142%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27983-MS1	LW44509.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035
OP27983-MSD1	LW44510.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035
DA73404-1	LW44513.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73406-1, DA73406-2

CAS No.	Compound	DA73404-1 mg/kg	Spike Q	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	< 4.3	199	172	87	192	166	86	4	59-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73404-1	Limits
84-15-1	o-Terphenyl	93%	94%	86%	20-142%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73406  
**Account:** CHEVRCOG Chevron USA, Inc.  
**Project:** TASMCOA: Cache 17-52

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27983-MS2	LW44511.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035
OP27983-MSD2	LW44512.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035
DA73404-2	LW44514.D	1	07/03/25	JB	07/03/25	OP27983	GLW1035

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73406-1, DA73406-2

CAS No.	Compound	DA73404-2 mg/kg	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-ORO (> C28-C36)	< 5.8	198	223	113	198	222	112	0	70-153/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73404-2	Limits
84-15-1	o-Terphenyl	92%	82%	94%	20-142%

\* = Outside of Control Limits.

## Metals Analysis

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### QC Data Summaries

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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: DA73406  
Account: CHEVROG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

QC Batch ID: MP41812  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/09/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	9.9	75		
Antimony	150	30	34		
Arsenic	130	11	23		
Barium	50	.95	6.5		
Beryllium	50	.5	6.5		
Boron	250	6.3	32	12.0	<250
Cadmium	50	1.1	6.5		
Calcium	2000	28	250		
Chromium	50	3.4	6.5		
Cobalt	25	4.1	3.2		
Copper	50	2.5	6.5		
Iron	350	9.3	60		
Lead	250	21	32		
Lithium	25	10	6.5		
Magnesium	1000	35	130		
Manganese	25	.85	3.2		
Molybdenum	50	13	14		
Nickel	150	5.7	19		
Phosphorus	500	58	80		
Potassium	5000	180	630		
Selenium	250	46	110		
Silicon	1000	210	750		
Silver	150	2.8	19		
Sodium	2000	43	250		
Strontium	25	.5	3.2		
Thallium	50	30	22		
Tin	300	17	260		
Titanium	50	2.2	6.5		
Uranium	250	57	43		
Vanadium	50	5.2	6.5		
Zinc	150	3.4	19		

Associated samples MP41812: DA73406-1B, DA73406-2B

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

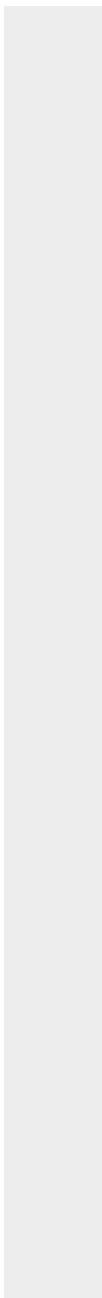
QC Batch ID: MP41812  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/09/25

Metal	RL	IDL	MDL	MB raw	final
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(anr) Analyte not requested



8.1.1  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41812  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/09/25

Metal	DA73408-4B Original	DUP	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	113	140	21.3 (a)	0-20
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41812: DA73406-1B, DA73406-2B

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.12  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

QC Batch ID: MP41812  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/09/25

Metal	DA73408-4B Original DUP	RPD	QC Limits
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(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested  
(a) RPD acceptable due to low duplicate and sample concentrations.

8.1.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41812  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/09/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	9420	10000	94.2	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41812: DA73406-1B, DA73406-2B

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.1.3  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

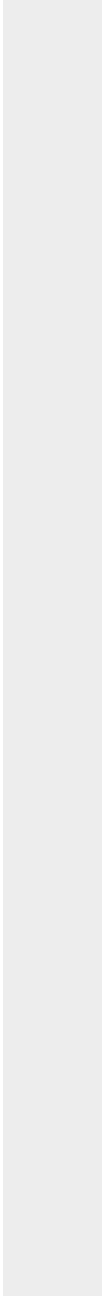
QC Batch ID: MP41812  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/09/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
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(anr) Analyte not requested



8.1.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41812  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/09/25

Metal	DA73408-4B Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	22.5	21.2	5.8	0-10
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41812: DA73406-1B, DA73406-2B

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.1.4  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

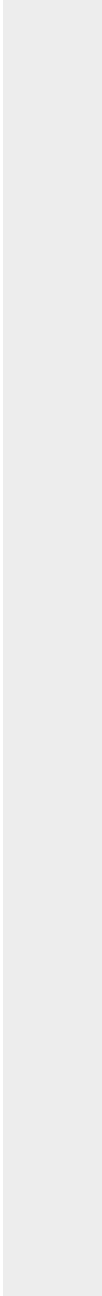
QC Batch ID: MP41812  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/09/25

Metal	DA73408-4B Original SDL 1:5	%DIF	QC Limits
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(anr) Analyte not requested



8.1.4  
8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

QC Batch ID: MP41813  
Matrix Type: SOLID

Methods: SW846 6020B  
Units: mg/kg

Prep Date: 07/03/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.26	2.5		
Antimony	0.20	.005	.025		
Arsenic	0.10	.025	.025	0.014	<0.10
Barium	1.0	.048	.12	0.055	<1.0
Beryllium	0.10	.038	.02		
Boron	20	9.1	5		
Cadmium	0.050	.015	.02	0.0069	<0.050
Calcium	200	13	15		
Chromium	1.0	.043	.3		
Cobalt	0.10	.02	.013		
Copper	1.0	.025	.13	-0.0011	<1.0
Iron	10	.8	7.5		
Lead	0.25	.047	.1	0.0069	<0.25
Magnesium	50	5	5		
Manganese	0.50	.04	.1		
Molybdenum	0.50	.019	.14		
Nickel	1.0	.049	.1	0.022	<1.0
Phosphorus	30	3.8	13		
Potassium	100	1	13		
Selenium	0.20	.025	.025	0.020	<0.20
Silver	0.050	.0041	.015	0.00083	<0.050
Sodium	250	5	15		
Strontium	10	.05	.5		
Thallium	0.10	.016	.02		
Tin	5.0	.11	2		
Titanium	1.0	.025	.15		
Uranium	0.10	.0074	.05		
Vanadium	0.50	.071	.1		
Zinc	5.0	.025	.5	-0.37	<5.0

Associated samples MP41813: DA73406-1, DA73406-2

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

8.2.1  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41813  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: mg/kg

Prep Date: 07/03/25

Metal	DA73404-23 Original MS		Spike/lot ICPMS6 % Rec		QC Limits
Aluminum					
Antimony					
Arsenic	2.6	120	117	100.2	75-125
Barium	86.4	321	234	100.1	75-125
Beryllium					
Boron					
Cadmium	0.17	62.8	58.6	106.9	75-125
Calcium					
Chromium					
Cobalt					
Copper	11.6	70.8	58.6	102.6	75-125
Iron					
Lead	8.5	134	117	107.1	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	7.8	66.5	58.6	101.0	75-125
Phosphorus					
Potassium					
Selenium	0.26	117	117	99.6	75-125
Silver	0.45	25.7	23.4	107.7	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	35.6	105	58.6	118.5	75-125

Associated samples MP41813: DA73406-1, DA73406-2

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

8.2.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41813  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: mg/kg

Prep Date: 07/03/25

Metal	DA73404-23 Original MSD		Spike ICPMS6	lot % Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	2.6	112	110	99.8	6.9	20
Barium	86.4	312	219	102.9	2.8	20
Beryllium						
Boron						
Cadmium	0.17	58.2	54.8	105.9	7.6	20
Calcium						
Chromium						
Cobalt						
Copper	11.6	67.1	54.8	102.9	5.4	20
Iron						
Lead	8.5	125	110	106.3	6.9	20
Magnesium						
Manganese						
Molybdenum						
Nickel	7.8	62.6	54.8	100.9	6.0	20
Phosphorus						
Potassium						
Selenium	0.26	109	110	99.2	7.1	20
Silver	0.45	23.7	21.9	106.1	8.1	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	35.6	99.7	54.8	117.0	5.2	20

Associated samples MP41813: DA73406-1, DA73406-2

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

8.2.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41813  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: mg/kg

Prep Date: 07/03/25

Metal	BSP Result	Spikelot ICPMS6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	104	100	104.0	80-120
Barium	212	200	106.0	80-120
Beryllium				
Boron				
Cadmium	52.9	50	105.8	80-120
Calcium				
Chromium				
Cobalt				
Copper	52.7	50	105.4	80-120
Iron				
Lead	107	100	107.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	52.0	50	104.0	80-120
Phosphorus				
Potassium				
Selenium	104	100	104.0	80-120
Silver	21.3	20	106.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	53.5	50	107.0	80-120

Associated samples MP41813: DA73406-1, DA73406-2

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

8.2.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41813  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: ug/l

Prep Date: 07/03/25

Metal	DA73404-23		QC	
	Original	SDL 5:25	%DIF	Limits
Aluminum				
Antimony				
Arsenic	21.9	20.3	7.3	0-20
Barium	738	647	12.3	0-20
Beryllium				
Boron				
Cadmium	1.45	1.21	13.1	0-20
Calcium				
Chromium				
Cobalt				
Copper	99.4	80.2	12.0	0-20
Iron				
Lead	72.2	61.4	15.0	0-20
Magnesium				
Manganese				
Molybdenum				
Nickel	66.6	55.0	11.7	0-20
Phosphorus				
Potassium				
Selenium	2.22	2.53	13.9	0-20
Silver	3.86	3.31	14.2	0-20
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	304	271	10.6	0-20

Associated samples MP41813: DA73406-1, DA73406-2

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

8.2.4  
8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73406  
Account: CHEVROG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

QC Batch ID: MP41867  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/10/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1500	30	230		
Antimony	450	90	100		
Arsenic	380	34	69		
Barium	150	2.9	20		
Beryllium	150	1.5	20		
Boron	750	19	95		
Cadmium	150	3.2	20		
Calcium	6000	84	750	129	<6000
Chromium	150	10	20		
Cobalt	75	12	9.5		
Copper	150	7.4	20		
Iron	1100	28	180		
Lead	750	63	95		
Lithium	75	30	20		
Magnesium	3000	110	380	-33	<3000
Manganese	75	2.6	9.5		
Molybdenum	150	38	42		
Nickel	450	17	57		
Phosphorus	1500	170	240		
Potassium	15000	540	1900		
Selenium	750	140	320		
Silicon	3000	620	2300		
Silver	450	8.4	57		
Sodium	6000	130	750	-4.5	<6000
Strontium	75	1.5	9.5		
Thallium	150	91	65		
Tin	900	51	770		
Titanium	150	6.5	20		
Uranium	750	170	130		
Vanadium	150	15	20		
Zinc	450	10	57		

Associated samples MP41867: DA73406-1A, DA73406-2A

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

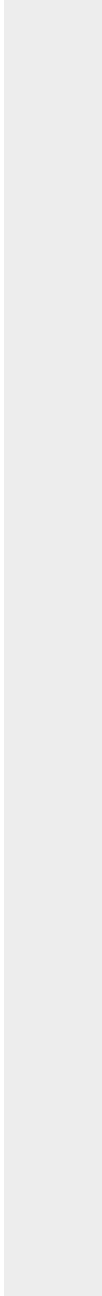
QC Batch ID: MP41867  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/10/25

Metal	RL	IDL	MDL	MB raw	final
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(anr) Analyte not requested



8.3.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41867  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/10/25

Metal	DA73408-1A Original MS	Spikelot ICPAL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	208000	603000	375000	105.3 75-125
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	66100	459000	375000	104.8 75-125
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	178000	577000	375000	106.4 75-125
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41867: DA73406-1A, DA73406-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

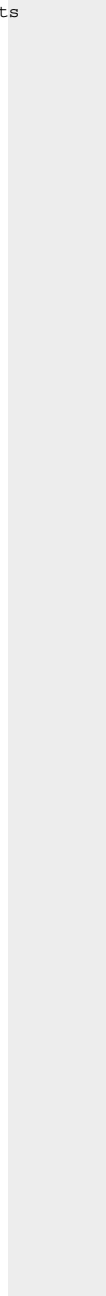
QC Batch ID: MP41867  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/10/25

Metal	DA73408-1A Original MS	SpikeLot ICPAL6	% Rec	QC Limits
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(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested



8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41867  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/10/25

Metal	DA73408-1A Original MSD	ICPAL6	SpikeLot % Rec	MSD RPD	QC Limit	
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	208000	608000	375000	106.7	0.8	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	66100	463000	375000	105.8	0.9	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	178000	572000	375000	105.1	0.9	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP41867: DA73406-1A, DA73406-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

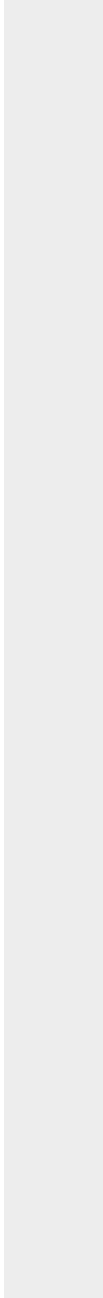
QC Batch ID: MP41867  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/10/25

Metal	DA73408-1A Original MSD	SpikeLot ICPAL6 % Rec	MSD RPD	QC Limit
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(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested



8.3.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41867  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/10/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	400000	375000	106.7	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	398000	375000	106.1	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	406000	375000	108.3	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41867: DA73406-1A, DA73406-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.3  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

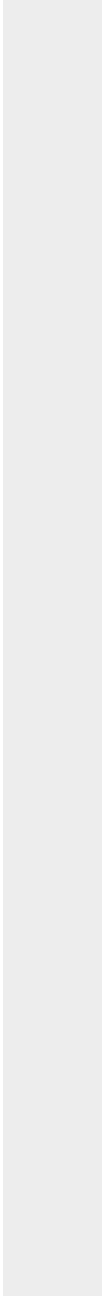
QC Batch ID: MP41867  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/10/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
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(anr) Analyte not requested



8.3.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73406  
 Account: CHEVRCOG - Chevron USA, Inc.  
 Project: TASMCOA: Cache 17-52

QC Batch ID: MP41867  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/10/25

Metal	DA73408-1A Original SDL 1:5		%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	13900	13500	2.6	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	4410	4250	3.4	0-10
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	11900	11500	3.4	0-10
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41867: DA73406-1A, DA73406-2A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.4  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

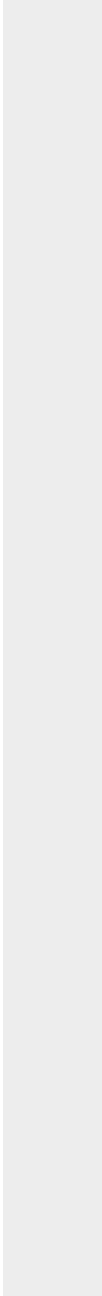
QC Batch ID: MP41867  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/10/25

Metal	DA73408-1A Original SDL 1:5	%DIF	QC Limits
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(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: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP38939/GN67774			mmhos/cm	1.409	1430	101.6	90-110%

Associated Samples:

Batch GP38939: DA73406-1, DA73406-2

(\*) Outside of QC limits

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73406  
Account: CHEVRCOG - Chevron USA, Inc.  
Project: TASMCOA: Cache 17-52

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GP38939/GN67774	DA73409-2	mmhos/cm	1.6	1.6	2.2	0-20%
pH	GN67795	DA73408-21	su	7.98	7.97	0.1	0-5%

Associated Samples:

Batch GN67795: DA73406-1, DA73406-2

Batch GP38939: DA73406-1, DA73406-2

(\*) Outside of QC limits

Misc. Forms

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Custody Documents and Other Forms

(SGS Dayton, NJ)

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Includes the following where applicable:

- Chain of Custody



## SGS Sample Receipt Summary

Job Number: DA73406

Client: SGS NORTH AMERICA INC

Project: TASMCOA CACHE

Date / Time Received: 7/8/2025 9:45:00 AM

Delivery Method: FEDEX

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

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2); Cooler 2: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (1.2); Cooler 2: (2.1);

**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. SmpI 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. Cooler temp verification: | <u>IR-50</u>                        |                          |
| 3. Cooler media:             | <u>Ice (Bag)</u>                    |                          |
| 4. No. Coolers:              | <u>2</u>                            |                          |

**Quality Control Preservation**

Y or N

N/A

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

**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"/> |

Test Strip Lot #s:      pH 1-12: 231619      pH 12+: 203117A      Other: (Specify) \_\_\_\_\_

Comments

SM089-03  
Rev. Date 12/7/17

DA73406: Chain of Custody

Page 2 of 2

10.1 10

## General Chemistry

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### QC Data Summaries

(SGS Dayton, NJ)

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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: DA73406  
Account: ALMS - SGS Wheat Ridge, CO  
Project: CHEVRCOG: TASMCOA: Cache 17-52 Flow Line

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP62442/GN70871	0.40	0.0	mg/kg	40	38.9	97.3	80-120%
Chromium, Hexavalent	GP62442/GN70871			mg/kg	908	848	93.4	80-120%

Associated Samples:  
Batch GP62442: DA73406-1, DA73406-2  
(\* ) Outside of QC limits

11.1  
11

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73406  
Account: ALMS - SGS Wheat Ridge, CO  
Project: CHEVRCOG: TASMCOA: Cache 17-52 Flow Line

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP62442/GN70871	DA73404-19	mg/kg	0.0	0.36	200.0(a)	0-20%

Associated Samples:

Batch GP62442: DA73406-1, DA73406-2

(\*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73406  
Account: ALMS - SGS Wheat Ridge, CO  
Project: CHEVRCOG: TASMCOA: Cache 17-52 Flow Line

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP62442/GN70871	DA73404-19	mg/kg	0.0	46.7	39.3	84.1(a)	75-125%
Chromium, Hexavalent	GP62442/GN70871	DA73404-19	mg/kg	0.0	1010	1020	100.7(b)	75-125%

Associated Samples:

Batch GP62442: DA73406-1, DA73406-2

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Good recovery on soluble XCR matrix spike. Good recovery (105%) on the post-spike.

(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

11.3  
11