



Fremont Environmental

October 15, 2025

Andrew Davis

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Chevron - Bockius Project Number - C023-304
15-1,8,Pfannebacher C14-32D Tank

Attached are your analytical results for Chevron - Bockius 15-1,8,Pfannebacher C14-32D Tank received by Origins Laboratory October 06, 2025. This project is associated with Origins project number E5J0160-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com





Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Andrew Davis
Project Number: C023-304
Project: Chevron - Bockius 15-1,8,Pfannebacher
C14-32D Tank

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	E5J0160-01	Water	October 6, 2025 12:00	10/06/2025 17:01
MW-2	E5J0160-02	Water	October 6, 2025 12:30	10/06/2025 17:01
MW-3	E5J0160-03	Water	October 6, 2025 13:00	10/06/2025 17:01
MW-4	E5J0160-04	Water	October 6, 2025 13:30	10/06/2025 17:01
MW-5	E5J0160-05	Water	October 6, 2025 14:00	10/06/2025 17:01

Origins Laboratory

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ORIGINS

LABORATORY

ESTD160

Client: Fremont Env
 Address: _____

Project Manager: Andrew Davis
 Project Name: Bucklin 15-1 & Frankeberget C14-32D
 Project Number: 1025
CO23-304

Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water

Telephone Number: 864-423-2068
 Email Address: jermaine@fremontenv.com

Invoice/Billing Info: Chelsea, Eric, Zuing, Remy 28880
 Collected By: Jordan Suttles

L=Liquid
 W=Waste Water

S=Soil | SO=Solid | G=Oil | A=Air | G=Gas || UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
							MS Table 1-5	MS Table 1-5	
1	MM-1	10/6/25	12:00	5	GW	MM-HLL	X		
2	MM-2		12:30				X		
3	MM-3		13:00				X		
4	MM-4		13:30				X		
5	MM-5		14:00				X		
6									
7									
8									
9									
10									

Relinquished By: Jordan Suttles Date: 10/6/25 Time: 15:00 Received By: NB Date: 10/6/25 Time: 15:10

Relinquished By: NB Date: 10/6/25 Time: 16:59 Received By: gmc Date: 10/10/25 Time: 17:01

Temp Received: 12 Received On Ice? Yes No

Turnaround Time
 SAME DAY 24 HR
 48 HR 72
 Standard

Sample Receipt Checklist

Origins Work Order: ESJ0160

Client: Fremont Env.

Client Project ID: Buckius 15-1, 8, Pfannebecher CM-32D tank

Checklist Completed by: NKM / SMC

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10 / 07 / 12

Airbill #: N/A

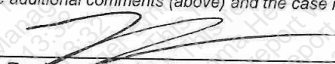
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 1.2 °C (Describe)

Thermometer ID: T-004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			N.C.
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.


Reviewed by (Project Manager)

10 108 1 25
Date/Time Reviewed



Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Andrew Davis
 Project Number: C023-304
 Project: Chevron - Bockius 15-1,8,Pfannebacher
 C14-32D Tank

MW-1
10/6/2025 12:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0160-01 (Water)
Origins Laboratory

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5J0725	10/07/2025	10/08/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	1.06		1.00	"	"	"	"	"	
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	1.03		1.00	"	"	"	"	"	
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	83.4 %				70-130	"	"	"	
Surrogate: Toluene-d8	91.2 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	77.1 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	402		31.2	mg/L	125	B5J0803	10/08/2025	10/09/2025	
Sulfate	681		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2120		5.00	"	1	B5J0710	10/07/2025	10/10/2025	
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Origins Laboratory

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Andrew Davis
 Project Number: C023-304
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 C14-32D Tank

MW-2
10/6/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0160-02 (Water)									
Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5J0725	10/07/2025	10/08/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	83.2 %				70-130	"	"	"	
Surrogate: Toluene-d8	90.9 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	76.5 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	337		31.2	mg/L	125	B5J0803	10/08/2025	10/09/2025	
Sulfate	567		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1840		5.00	"	1	B5J0710	10/07/2025	10/10/2025	

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MW-3
10/6/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0160-03 (Water)									
Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5J0725	10/07/2025	10/08/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	1.21		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	82.9 %								
Surrogate: Toluene-d8	90.7 %								
Surrogate: 4-Bromofluorobenzene	77.9 %								
Chloride and Sulfate By EPA 300.0									
Chloride	389		31.2	mg/L	125	B5J0803	10/08/2025	10/09/2025	
Sulfate	684		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2110		5.00	"	1	B5J0710	10/07/2025	10/10/2025	

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 C14-32D Tank

MW-4
10/6/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0160-04 (Water)									
Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5J0725	10/07/2025	10/08/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	3.19		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	82.6 %				70-130	"	"	"	
Surrogate: Toluene-d8	90.0 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	76.7 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	386		31.2	mg/L	125	B5J0803	10/08/2025	10/09/2025	
Sulfate	598		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2000		5.00	"	1	B5J0710	10/07/2025	10/10/2025	

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 C14-32D Tank

MW-5
10/6/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0160-05 (Water)
Origins Laboratory

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5J0725	10/07/2025	10/08/2025	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	84.8 %				70-130	"	"	"	
Surrogate: Toluene-d8	91.2 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	75.0 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	321		31.2	mg/L	125	B5J0803	10/08/2025	10/09/2025	
Sulfate	486		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1750		5.00	"	1	B5J0710	10/07/2025	10/10/2025	
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 C14-32D Tank

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5J0710 - NO PREP										
Blank (B5J0710-BLK1) Prepared: 10/07/2025 Analyzed: 10/10/2025										
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B5J0710-BS1) Prepared: 10/07/2025 Analyzed: 10/10/2025										
Total Dissolved Solids	996	5.00	mg/L	1000		99.6	90-110			
Duplicate (B5J0710-DUP1) Source: E5J0158-06 Prepared: 10/07/2025 Analyzed: 10/10/2025										
Total Dissolved Solids	7520	5.00	mg/L		7530			0.106	10	
Batch B5J0803 - Filter .45um non acidified										
Blank (B5J0803-BLK1) Prepared: 10/08/2025 Analyzed: 10/09/2025										
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B5J0803-BS1) Prepared: 10/08/2025 Analyzed: 10/09/2025										
Chloride	4.04	0.250	mg/L	4.00		101	90-110			
Sulfate	3.89	0.250	"	4.00		97.2	90-110			
Matrix Spike (B5J0803-MS1) Source: E5J0161-03 Prepared: 10/08/2025 Analyzed: 10/09/2025										
Chloride	1510		mg/L	500	979	106	90-110			
Sulfate	2280		"	500	1770	103	90-110			
Matrix Spike Dup (B5J0803-MSD1) Source: E5J0161-03 Prepared: 10/08/2025 Analyzed: 10/09/2025										
Chloride	1480		mg/L	500	979	101	90-110	1.72	5	
Sulfate	2260		"	500	1770	98.8	90-110	0.891	5	

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Andrew Davis
 Project Number: C023-304
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 C14-32D Tank

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J0725 - EPA 5030B (Water)

Prepared: 10/07/2025 Analyzed: 10/07/2025

Blank (B5J0725-BLK1)

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U

Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.6	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	50		"	62.5		79.3	70-130			

LCS (B5J0725-BS1)

Prepared: 10/07/2025 Analyzed: 10/07/2025

1,2,4-Trimethylbenzene	48.8	2.00	ug/L	50.0		97.5	70-130			
1,3,5-Trimethylbenzene	47.5	2.00	"	50.0		95.1	70-130			
Benzene	45.8	1.00	"	50.0		91.7	70-130			
Ethylbenzene	42.6	1.00	"	50.0		85.2	70-130			
m,p-Xylene	93.2	2.00	"	100		93.2	70-130			
Naphthalene	46.8	2.00	"	50.0		93.7	70-130			
o-Xylene	42.3	1.00	"	50.0		84.6	70-130			
Toluene	47.6	1.00	"	50.0		95.3	70-130			

Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.3	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.6	70-130			
Surrogate: 4-Bromofluorobenzene	46		"	62.5		73.5	70-130			

Matrix Spike (B5J0725-MS1)

Source: E5J0160-01

Prepared: 10/07/2025 Analyzed: 10/07/2025

1,2,4-Trimethylbenzene	41.4	2.00	ug/L	50.0	ND	82.7	70-130			
1,3,5-Trimethylbenzene	39.8	2.00	"	50.0	ND	79.6	70-130			

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 C14-32D Tank

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J0725 - EPA 5030B (Water)

Matrix Spike (B5J0725-MS1)

Source: E5J0160-01

Prepared: 10/07/2025 Analyzed: 10/07/2025

Benzene	43.1	1.00	ug/L	50.0	1.06	84.0	70-130			
Ethylbenzene	37.6	1.00	"	50.0	ND	75.1	70-130			
m,p-Xylene	82.2	2.00	"	100	1.75	80.5	70-130			
Naphthalene	43.8	2.00	"	50.0	0.880	85.9	70-130			
o-Xylene	37.4	1.00	"	50.0	0.330	74.2	70-130			
Toluene	43.1	1.00	"	50.0	1.03	84.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.1	70-130			
Surrogate: Toluene-d8	56		"	62.5		89.5	70-130			
Surrogate: 4-Bromofluorobenzene	46		"	62.5		73.4	70-130			

Matrix Spike Dup (B5J0725-MSD1)

Source: E5J0160-01

Prepared: 10/07/2025 Analyzed: 10/07/2025

1,2,4-Trimethylbenzene	44.5	2.00	ug/L	50.0	ND	89.0	70-130	7.33	20	
1,3,5-Trimethylbenzene	43.8	2.00	"	50.0	ND	87.6	70-130	9.47	20	
Benzene	44.1	1.00	"	50.0	1.06	86.0	70-130	2.32	20	
Ethylbenzene	40.6	1.00	"	50.0	ND	81.2	70-130	7.85	20	
m,p-Xylene	89.0	2.00	"	100	1.75	87.2	70-130	7.92	20	
Naphthalene	45.3	2.00	"	50.0	0.880	88.9	70-130	3.39	20	
o-Xylene	39.5	1.00	"	50.0	0.330	78.3	70-130	5.28	20	
Toluene	44.7	1.00	"	50.0	1.03	87.3	70-130	3.62	20	
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5		80.9	70-130			
Surrogate: Toluene-d8	56		"	62.5		89.9	70-130			
Surrogate: 4-Bromofluorobenzene	47		"	62.5		74.8	70-130			

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C14-32D Tank

Notes and Definitions

- U Sample is Non-Detect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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