



Ensolum

May 30, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Burmester 7-34 WH

Project Number - 09A1417686

Attached are your analytical results for KMG - Burmester 7-34 WH received by Origins Laboratory May 14, 2025. This project is associated with Origins project number E5E0471-01.

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.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

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





Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417686
Project: KMG - Burmester 7-34 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	E5E0471-01	Water	May 14, 2025 12:18	05/14/2025 13:45
MW02	E5E0471-02	Water	May 14, 2025 11:47	05/14/2025 13:45
MW03	E5E0471-03	Water	May 14, 2025 11:54	05/14/2025 13:45
MW04	E5E0471-04	Water	May 14, 2025 12:01	05/14/2025 13:45
MW05	E5E0471-05	Water	May 14, 2025 12:10	05/14/2025 13:45

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ESE0411

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page 1 of 1

Client: Ensolum
Address: 11049 W 44th, Wheat Ridge, CO 80033
Project Manager: Jeremy Espinoza
Project Name: Burmester 7-34 Wellhead
Project Number: 09A1417686
Telephone Number: KMG Team
Email Address: KMG Team
Samples Collected By: KMG Team

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
MM01	5/14/2025	12:18	4	X					X		
MM02		11:47									
MM03		11:54									
MM04		12:01									
MM05		12:10									

Relinquished By: Bryce Soley
Date: 5/14/2025
Time: 13:15
Received By: SMC
Date: 5/14/25
Time: 13:15
Unrecorded Time: 48 Hr 24 Hr 72 Hr Standard

44
110 Date Results Needed

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Jeremy Espinoza
Project Number: 09A1417686
Project: KMG - Burmester 7-34 WH

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ESE0477

Client: ENSOLIUM

Client Project ID: Burmester 7-34 Wellhead

Checklist Completed by: NKM/NKM

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 05/14/25

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4.4 °C (Describe)

Thermometer ID: T-007

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

05/16/25
Date/Time Reviewed

Origins Laboratory

EHO

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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417686
 Project: KMG - Burmester 7-34 WH

MW01

5/14/2025 12:18:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0471-01 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5E1936	05/19/2025	05/19/2025	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									
	102 %				70-130	"	"	"	
Surrogate: Toluene-d8									
	102 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene									
	96.9 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	399		31.2	mg/L	125	B5E1606	05/16/2025	05/17/2025	
Sulfate	341		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1990		5.00	"	1	B5E1476	05/14/2025	05/16/2025	

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MW02

5/14/2025 11:47:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0471-02 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5E1936	05/19/2025	05/19/2025	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	99.4 %				70-130	"	"	"	
Surrogate: Toluene-d8	101 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	347		31.2	mg/L	125	B5E1606	05/16/2025	05/17/2025	
Sulfate	347		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1560		5.00	"	1	B5E1476	05/14/2025	05/16/2025	

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MW03

5/14/2025 11:54:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0471-03 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5E1936	05/19/2025	05/19/2025	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	102 %				70-130	"	"	"	
Surrogate: Toluene-d8	100 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	271		31.2	mg/L	125	B5E1606	05/16/2025	05/17/2025	
Sulfate	240		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1310		5.00	"	1	B5E1476	05/14/2025	05/16/2025	

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MW04

5/14/2025 12:01:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0471-04 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5E1936	05/19/2025	05/19/2025	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	101 %				70-130	"	"	"	
Surrogate: Toluene-d8	101 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	471		31.2	mg/L	125	B5E1606	05/16/2025	05/17/2025	
Sulfate	540		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2230		5.00	"	1	B5E1476	05/14/2025	05/16/2025	

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MW05

5/14/2025 12:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0471-05 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5E1936	05/19/2025	05/19/2025	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	101 %				70-130	"	"	"	
Surrogate: Toluene-d8	102 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	456		31.2	mg/L	125	B5E1606	05/16/2025	05/17/2025	
Sulfate	396		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2300		5.00	"	1	B5E1476	05/14/2025	05/16/2025	

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E1476 - NO PREP										
Blank (B5E1476-BLK1) Prepared: 05/14/2025 Analyzed: 05/16/2025										
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B5E1476-BS1) Prepared: 05/14/2025 Analyzed: 05/16/2025										
Total Dissolved Solids	1000	5.00	mg/L	1030		97.3	90-110			
Duplicate (B5E1476-DUP1) Source: E5E0458-19 Prepared: 05/14/2025 Analyzed: 05/16/2025										
Total Dissolved Solids	8460	5.00	mg/L		8300			1.96	10	
Batch B5E1606 - Filter .45um non acidified										
Blank (B5E1606-BLK1) Prepared: 05/16/2025 Analyzed: 05/17/2025										
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B5E1606-BS1) Prepared: 05/16/2025 Analyzed: 05/17/2025										
Chloride	4.21	0.250	mg/L	4.00		105	90-110			
Sulfate	3.96	0.250	"	4.00		99.1	90-110			
Matrix Spike (B5E1606-MS1) Source: E5E0461-21 Prepared: 05/16/2025 Analyzed: 05/17/2025										
Chloride	700		mg/L	500	163	107	90-110			
Sulfate	821		"	500	335	97.2	90-110			
Matrix Spike Dup (B5E1606-MSD1) Source: E5E0461-21 Prepared: 05/16/2025 Analyzed: 05/17/2025										
Chloride	698		mg/L	500	163	107	90-110	0.268	5	
Sulfate	822		"	500	335	97.4	90-110	0.0867	5	

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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 B5E1936 - EPA 5030B (Water)

Blank (B5E1936-BLK1)

Prepared: 05/19/2025 Analyzed: 05/19/2025

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	64	"		62.5	102	70-130
Surrogate: Toluene-d8	63	"		62.5	100	70-130
Surrogate: 4-Bromofluorobenzene	60	"		62.5	96.5	70-130

LCS (B5E1936-BS1)

Prepared: 05/19/2025 Analyzed: 05/19/2025

1,2,4-Trimethylbenzene	50.5	2.00	ug/L	50.0	101	70-130
1,3,5-Trimethylbenzene	57.3	2.00	"	50.0	115	70-130
Benzene	50.0	1.00	"	50.0	100	70-130
Ethylbenzene	55.3	1.00	"	50.0	111	70-130
m,p-Xylene	103	2.00	"	100	103	70-130
Naphthalene	46.0	2.00	"	50.0	92.0	70-130
o-Xylene	49.8	1.00	"	50.0	99.6	70-130
Toluene	51.4	1.00	"	50.0	103	70-130

Surrogate: 1,2-Dichloroethane-d4	64	"		62.5	103	70-130
Surrogate: Toluene-d8	62	"		62.5	99.0	70-130
Surrogate: 4-Bromofluorobenzene	65	"		62.5	104	70-130

Matrix Spike (B5E1936-MS1)

Source: E5E0470-22

Prepared: 05/19/2025 Analyzed: 05/19/2025

1,2,4-Trimethylbenzene	43.2	2.00	ug/L	50.0	ND	86.4	70-130
1,3,5-Trimethylbenzene	46.3	2.00	"	50.0	ND	92.5	70-130

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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 B5E1936 - EPA 5030B (Water)

Matrix Spike (B5E1936-MS1)			Source: E5E0470-22			Prepared: 05/19/2025 Analyzed: 05/19/2025				
Benzene	39.0	1.00	ug/L	50.0	ND	77.9	70-130			
Ethylbenzene	42.2	1.00	"	50.0	ND	84.4	70-130			
m,p-Xylene	80.0	2.00	"	100	ND	80.0	70-130			
Naphthalene	46.5	2.00	"	50.0	ND	93.0	70-130			
o-Xylene	42.3	1.00	"	50.0	ND	84.6	70-130			
Toluene	41.9	1.00	"	50.0	ND	83.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Matrix Spike Dup (B5E1936-MSD1)			Source: E5E0470-22			Prepared: 05/19/2025 Analyzed: 05/19/2025				
1,2,4-Trimethylbenzene	56.0	2.00	ug/L	50.0	ND	112	70-130	25.8	20	QR-02
1,3,5-Trimethylbenzene	62.5	2.00	"	50.0	ND	125	70-130	29.8	20	QR-02
Benzene	52.1	1.00	"	50.0	ND	104	70-130	28.9	20	QR-02
Ethylbenzene	58.9	1.00	"	50.0	ND	118	70-130	33.0	20	QR-02
m,p-Xylene	113	2.00	"	100	ND	113	70-130	34.2	20	QR-02
Naphthalene	50.3	2.00	"	50.0	ND	101	70-130	7.89	20	
o-Xylene	54.6	1.00	"	50.0	ND	109	70-130	25.4	20	QR-02
Toluene	54.8	1.00	"	50.0	ND	110	70-130	26.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Project Number: 09A1417686

Project: KMG - Burmester 7-34 WH

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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