



Ensolum

November 12, 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 November 04, 2025. This project is associated with Origins project number E5K0060-01.

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





Ensolium
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	E5K0060-01	Water	November 4, 2025 14:43	11/04/2025 16:38
MW02	E5K0060-02	Water	November 4, 2025 15:01	11/04/2025 16:38
MW03	E5K0060-03	Water	November 4, 2025 14:32	11/04/2025 16:38
MW04	E5K0060-04	Water	November 4, 2025 14:20	11/04/2025 16:38
MW05	E5K0060-05	Water	November 4, 2025 14:50	11/04/2025 16:38

Origins Laboratory

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ORIGINS

LABORATORY

€5K0060

Page 1 of 1

Client: Freshwin

Project Manager: Jenny Espinoza

Key:

Address: _____

Project Name: Bermejo 734 wellhead

W=Water

Telephone Number: (0170) 990 2134

Project Number: 09A14171686.05

GW=Groundwater

Email Address: KMC Team

Collected By: Linda Correa

SW=Surface Water

Invoice/Billing Info: _____

WW=Waste Water

S=Soil | SO=Solid | O=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
1	MW01	11/4/25	1443	4	AW	UNP				X Fullst 915
2	MW02		1501							
3	MW03		1432							
4	MW04		1420							
5	MW05		1450							
6										
7										
8										
9										
10										

Relinquished By: [Signature] Date: 11/4/25 Time: 1638

Received By: [Signature] Date: 11/4/25 Time: 1530

Temp Received - 1.9 Received On Ice? Yes No

Relinquished By: [Signature] Date: 11/4/25 Time: 1638

Received By: [Signature] Date: 11/4/25 Time: 1530

Turnaround Time SAME DAY 24 Hr 48 Hr 72 Standard

1725 Elk Ridge Drive, Co. 80211 | 303.433.1321 | origins@hcb.com | Temp Received - 1.9 Received On Ice? Yes No

Sample Receipt Checklist

Origins Work Order: E5K0060

Client: Ensolom

Client Project ID: Burmaster 7-34 WH

Checklist Completed by: TEH / ARZ

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

Date/time completed: 11/9/25

Airbill #: N/A

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

Cooler Number/Temperature: 1, 1.9 °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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
<u>Additional Comments (if any):</u>				

⁽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 in the additional comments (above) and the case narrative.

ZHO
Reviewed by (Project Manager)

1115 RS
Date/Time Reviewed



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

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

MW01

11/4/2025 2:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5K0060-01 (Water)									
Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5K0541	11/05/2025	11/05/2025	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	100 %				70-130	"	"	"	
Surrogate: Toluene-d8	98.9 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	370		31.2	mg/L	125	B5K0517	11/05/2025	11/07/2025	
Sulfate	313		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1990		5.00	"	1	B5K0432	11/05/2025	11/06/2025	

Origins Laboratory

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MW02

11/4/2025 3:01:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0060-02 (Water)
 Origins Laboratory**

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5K0541	11/05/2025	11/05/2025	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	98.4 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	341		31.2	mg/L	125	B5K0517	11/05/2025	11/07/2025	
Sulfate	274		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1580		5.00	"	1	B5K0432	11/05/2025	11/06/2025	
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MW03

11/4/2025 2:32:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5K0060-03 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5K0541	11/05/2025	11/05/2025	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	99.1 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %				70-130	"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	332		31.2	mg/L	125	B5K0517	11/05/2025	11/07/2025	
Sulfate	286		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	1630		5.00	"	1	B5K0432	11/05/2025	11/06/2025	

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MW04

11/4/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0060-04 (Water)
 Origins Laboratory**

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5K0541	11/05/2025	11/05/2025	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	100 %				70-130	"	"	"	
Surrogate: Toluene-d8	99.4 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	517		31.2	mg/L	125	B5K0517	11/05/2025	11/07/2025	
Sulfate	629		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2520		5.00	"	1	B5K0432	11/05/2025	11/06/2025	
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MW05

11/4/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0060-05 (Water)
 Origins Laboratory**

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B5K0541	11/05/2025	11/05/2025	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	98.4 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %				70-130	"	"	"	

Chloride and Sulfate By EPA 300.0

Chloride	432		31.2	mg/L	125	B5K0517	11/05/2025	11/07/2025	
Sulfate	374		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2300		5.00	"	1	B5K0432	11/05/2025	11/06/2025	
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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 B5K0432 - NO PREP										
Blank (B5K0432-BLK1)										
					Prepared: 11/05/2025 Analyzed: 11/06/2025					
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B5K0432-BS1)										
					Prepared: 11/05/2025 Analyzed: 11/06/2025					
Total Dissolved Solids	1030	5.00	mg/L	1040		99.0	90-110			
Duplicate (B5K0432-DUP1)										
					Source: E5K0045-01 Prepared: 11/05/2025 Analyzed: 11/06/2025					
Total Dissolved Solids	1250	5.00	mg/L		1280			2.38	10	
Batch B5K0517 - Filter .45um non acidified										
Blank (B5K0517-BLK1)										
					Prepared: 11/05/2025 Analyzed: 11/07/2025					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B5K0517-BS1)										
					Prepared: 11/05/2025 Analyzed: 11/07/2025					
Chloride	3.96	0.250	mg/L	4.00		99.0	90-110			
Sulfate	3.90	0.250	"	4.00		97.4	90-110			
Matrix Spike (B5K0517-MS1)										
					Source: E5K0045-13 Prepared: 11/05/2025 Analyzed: 11/07/2025					
Chloride	551		mg/L	500	48.1	101	90-110			
Sulfate	493		"	500	5.34	97.5	90-110			
Matrix Spike Dup (B5K0517-MSD1)										
					Source: E5K0045-13 Prepared: 11/05/2025 Analyzed: 11/07/2025					
Chloride	561		mg/L	500	48.1	103	90-110	1.72	5	
Sulfate	499		"	500	5.34	98.7	90-110	1.15	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 B5K0541 - EPA 5030B (Water)

Prepared: 11/05/2025 Analyzed: 11/05/2025

Blank (B5K0541-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	61		"	62.5		98.4	70-130
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130

LCS (B5K0541-BS1)

Prepared: 11/05/2025 Analyzed: 11/05/2025

1,2,4-Trimethylbenzene	52.5	2.00	ug/L	50.0		105	70-130
1,3,5-Trimethylbenzene	52.3	2.00	"	50.0		105	70-130
Benzene	47.7	1.00	"	50.0		95.5	70-130
Ethylbenzene	53.3	1.00	"	50.0		107	70-130
m,p-Xylene	107	2.00	"	100		107	70-130
Naphthalene	48.3	2.00	"	50.0		96.6	70-130
o-Xylene	52.5	1.00	"	50.0		105	70-130
Toluene	51.1	1.00	"	50.0		102	70-130

Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	70-130
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130

Matrix Spike (B5K0541-MS1)

Source: E5K0060-01

Prepared: 11/05/2025 Analyzed: 11/05/2025

1,2,4-Trimethylbenzene	55.2	2.00	ug/L	50.0	0.640	109	70-130
1,3,5-Trimethylbenzene	54.3	2.00	"	50.0	0.540	108	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 B5K0541 - EPA 5030B (Water)

Matrix Spike (B5K0541-MS1)

Source: E5K0060-01

Prepared: 11/05/2025 Analyzed: 11/05/2025

Benzene	53.4	1.00	ug/L	50.0	0.260	106	70-130			
Ethylbenzene	56.2	1.00	"	50.0	0.490	111	70-130			
m,p-Xylene	116	2.00	"	100	1.56	114	70-130			
Naphthalene	53.8	2.00	"	50.0	0.720	106	70-130			
o-Xylene	55.4	1.00	"	50.0	ND	111	70-130			
Toluene	55.4	1.00	"	50.0	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

Matrix Spike Dup (B5K0541-MSD1)

Source: E5K0060-01

Prepared: 11/05/2025 Analyzed: 11/05/2025

1,2,4-Trimethylbenzene	51.4	2.00	ug/L	50.0	0.640	101	70-130	7.23	20	
1,3,5-Trimethylbenzene	51.1	2.00	"	50.0	0.540	101	70-130	6.13	20	
Benzene	47.6	1.00	"	50.0	0.260	94.7	70-130	11.5	20	
Ethylbenzene	51.0	1.00	"	50.0	0.490	101	70-130	9.74	20	
m,p-Xylene	103	2.00	"	100	1.56	102	70-130	11.4	20	
Naphthalene	50.0	2.00	"	50.0	0.720	98.6	70-130	7.19	20	
o-Xylene	50.4	1.00	"	50.0	ND	101	70-130	9.50	20	
Toluene	50.2	1.00	"	50.0	ND	100	70-130	9.86	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

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ORIGINS LABORATORY

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Jeremy Espinoza
Project Number: 09A1417686
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Notes and Definitions

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

Origins Laboratory



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