



Ensolum

February 24, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Palombo 23-4L Wellhead

Project Number - 09A1417995

Attached are your analytical results for KMG - Palombo 23-4L Wellhead received by Origins Laboratory January 28, 2025. This project is associated with Origins project number E5A0604-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01(23-4I)@6'	E5A0604-01	Soil	January 28, 2025 10:45	01/28/2025 17:07
B01(23-4L)@6'-V	E5A0604-02	Soil	January 28, 2025 10:50	01/28/2025 17:07
Native-BG01@3'	E5A0604-03	Soil	January 28, 2025 11:00	01/28/2025 17:07
Native-BG01@6'	E5A0604-04	Soil	January 28, 2025 11:05	01/28/2025 17:07
Native-BG02@3'	E5A0604-05	Soil	January 28, 2025 11:10	01/28/2025 17:07
Native-BG02@6'	E5A0604-06	Soil	January 28, 2025 11:15	01/28/2025 17:07
Native-BG03@3'	E5A0604-07	Soil	January 28, 2025 11:20	01/28/2025 17:07
Native-BG03@6'	E5A0604-08	Soil	January 28, 2025 11:25	01/28/2025 17:07
Native-BG04@3'	E5A0604-09	Soil	January 28, 2025 11:30	01/28/2025 17:07
Native-BG04@6'	E5A0604-10	Soil	January 28, 2025 11:35	01/28/2025 17:07

Origins Laboratory



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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

Client: Ensolum
 Address: _____
 Project Manager: Jeremy Espinoza
 Project Name: Palombo 23-4L Wellhead
 Project Number: 09A1417995
 Telephone Number: (770) 590-2134
 Collected By: W+R
 Email Address: Wm Ryan
 Invoice/Billing Info: TN 1141
 Key: _____
 W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid

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	
						Full Ig	pH	EC	SAR	Boron	As Matrix		
1	Boil (23-4L) @ U	1/28/15	1045	3	5 UNP	X							
2	Boil (23-4L) @ U		1050	3		X							
3	Matrix - Soil @ S		1100	2		X	X	X	X				
4	Matrix - Soil @ U		1105	2		X	X	X	X				
5	Matrix - Soil @ S		1110	2									
6	Matrix - Soil @ U		1115	2									
7	Matrix - Soil @ S		1120	2									
8	Matrix - Soil @ U		1125	2									
9	Matrix - Soil @ S		1130	2									
10	Matrix - Soil @ U		1135	2									

Relinquished By: Elizabeth E. Date: 1-28-25 Time: 7:07
 Received By: [Signature] Date: 1/28/25 Time: 7:07
 Requisitioned By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received - 2.4 Received On Ice? Yes No
 For Lab Sample Receiving Only: Standard SAME DAY 24 Hr 48 Hr 72

Origins Laboratory

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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ESA0604

Client: Ensolium

Client Project ID: Palombo 23-4L

Checklist Completed by: SEM / JRE

Shipped Via: _____

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

Date/time completed: 01 / 28 / 25

Airbill #: N/A

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

(Describe)

Cooler Number/Temperature: 1 / 29 ° c

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"/>			
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"/>	
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"/>	
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 in the additional comments (above) and the case narrative.

SEM
Reviewed by (Project Manager)

01 / 28 / 25
Date/Time Reviewed

Origins Laboratory



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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

B01(23-4I)@6'

1/28/2025 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5A2826	01/28/2025	01/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5A2824	01/28/2025	01/29/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
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Jeremy Espinoza
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Project: KMG - Palombo 23-4L Wellhead

B01(23-4I)@6'

1/28/2025 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.5 %		70-130			B5A28 24	01/28/2025	01/29/2025	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.51		0.499	meq/L	10	[CALC]	01/28/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.815		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5A2827	01/28/2025	02/20/2025	U
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

B01(23-4I)@6'

1/28/2025 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B5A2827	01/28/2025	02/20/2025	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	10.1			pH Units	1	B5A2909	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	0.930		0.0100	SAR	1	B5A2846	01/28/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.312		0.00500	mmhos/cm	1	B5A2909	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Origins Laboratory



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Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

B01(23-4I)@6'

1/28/2025 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.29		0.281	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	15.8		9.68	"	"	"	"	"	
Cadmium	ND		0.0968	"	"	"	"	"	
Copper	ND		9.68	"	"	"	"	"	
Lead	3.99		0.968	"	"	"	"	"	
Nickel	1.77		0.968	"	"	"	"	"	
Selenium	ND		0.252	"	"	"	"	"	
Silver	ND		0.0968	"	"	"	"	"	
Zinc	ND		35.8	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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Origins Laboratory



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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

B01(23-4L)@6'-V

1/28/2025 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-02 (Soil)

pH in Soil by 9045D

pH	11.5			pH Units	1	B5A2913	01/29/2025	01/30/2025	
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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG01@3'
1/28/2025 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0993	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	01/28/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.30		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.69			pH Units	1	B5A2909	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	2.66		0.0100	SAR	1	B5A2846	01/28/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.226		0.00500	mmhos/cm	1	B5A2909	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.24		0.282	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	24.2		9.74	"	"	"	"	"	
Cadmium	ND		0.0974	"	"	"	"	"	

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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG01@3'

1/28/2025 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-03 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.74	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Lead	2.58		0.974	"	"	"	"	"	
Nickel	1.83		0.974	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0974	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG01@6'
1/28/2025 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	01/28/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.990		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.47			pH Units	1	B5A2909	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	2.71		0.0100	SAR	1	B5A2846	01/28/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.156		0.00500	mmhos/cm	1	B5A2909	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	0.815		0.271	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	13.9		9.33	"	"	"	"	"	
Cadmium	ND		0.0933	"	"	"	"	"	

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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG01@6'

1/28/2025 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-04 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.33	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Lead	1.95		0.933	"	"	"	"	"	
Nickel	1.37		0.933	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0933	"	"	"	"	"	
Zinc	ND		34.5	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG02@3'
1/28/2025 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.374		0.0996	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.962		0.499	meq/L	10	[CALC]	01/29/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.16		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B5A2910	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	3.87		0.0100	SAR	1	B5A2903	01/29/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.507		0.00500	mmhos/cm	1	B5A2910	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.03		0.265	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	21.7		9.14	"	"	"	"	"	
Cadmium	ND		0.0914	"	"	"	"	"	
Copper	ND		9.14	"	"	"	"	"	

Origins Laboratory



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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

Native-BG02@3'

1/28/2025 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-05 (Soil)

Table 915 metals by EPA 6020B

Lead	2.58		0.914	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Nickel	1.41		0.914	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG02@6'
1/28/2025 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0991	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.677		0.499	meq/L	10	[CALC]	01/29/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.35		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B5A2910	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	2.00		0.0100	SAR	1	B5A2903	01/29/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.263		0.00500	mmhos/cm	1	B5A2910	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.93		0.268	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	14.4		9.24	"	"	"	"	"	
Cadmium	ND		0.0924	"	"	"	"	"	

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG02@6'

1/28/2025 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-06 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.24	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Lead	2.31		0.924	"	"	"	"	"	
Nickel	1.68		0.924	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0924	"	"	"	"	"	
Zinc	ND		34.2	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG03@3'
1/28/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.340		0.0989	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.88		0.499	meq/L	10	[CALC]	01/29/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.05		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.55			pH Units	1	B5A2910	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	4.52		0.0100	SAR	1	B5A2903	01/29/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.823		0.00500	mmhos/cm	1	B5A2910	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.41		0.278	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	60.7		9.57	"	"	"	"	"	
Cadmium	0.110		0.0957	"	"	"	"	"	
Copper	ND		9.57	"	"	"	"	"	

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG03@3'

1/28/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-07 (Soil)**

Table 915 metals by EPA 6020B

Lead	5.60		0.957	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Nickel	4.58		0.957	"	"	"	"	"	
Selenium	ND		0.249	"	"	"	"	"	
Silver	ND		0.0957	"	"	"	"	"	
Zinc	ND		35.4	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.21	0.21	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG03@6'
1/28/2025 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0985	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.515		0.499	meq/L	10	[CALC]	01/29/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.773		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B5A2910	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	1.30		0.0100	SAR	1	B5A2903	01/29/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.182		0.00500	mmhos/cm	1	B5A2910	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	0.678		0.279	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	11.0		9.60	"	"	"	"	"	
Cadmium	ND		0.0960	"	"	"	"	"	

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG03@6'

1/28/2025 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-08 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.60	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Lead	2.39		0.960	"	"	"	"	"	
Nickel	1.34		0.960	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0960	"	"	"	"	"	
Zinc	ND		35.5	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG04@3'

1/28/2025 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-09 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.579		0.0987	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.10		0.499	meq/L	10	[CALC]	01/29/2025	01/31/2025	
Magnesium	0.890		0.823	"	"	"	"	"	
Sodium	5.90		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.49			pH Units	1	B5A2910	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	4.82		0.0100	SAR	1	B5A2903	01/29/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.949		0.00500	mmhos/cm	1	B5A2910	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.51		0.284	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	133		9.79	"	"	"	"	"	
Cadmium	0.126		0.0979	"	"	"	"	"	
Copper	12.0		9.79	"	"	"	"	"	

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG04@3'

1/28/2025 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-09 (Soil)**

Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Lead	10.3		0.979	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Nickel	10.4		0.979	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	
Silver	ND		0.0979	"	"	"	"	"	
Zinc	52.3		36.2	"	"	"	"	"	

Total Metals by SW7196

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG04@6'
1/28/2025 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0604-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B5A2848	01/28/2025	01/30/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.601		0.499	meq/L	10	[CALC]	01/29/2025	01/31/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.17		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B5A2910	01/29/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	1.84		0.0100	SAR	1	B5A2903	01/29/2025	01/31/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228		0.00500	mmhos/cm	1	B5A2910	01/29/2025	01/30/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.50		0.283	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Barium	18.9		9.76	"	"	"	"	"	
Cadmium	ND		0.0976	"	"	"	"	"	

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Native-BG04@6'

1/28/2025 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0604-10 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.76	mg/kg	10	B5A2838	01/28/2025	01/29/2025	
Lead	2.67		0.976	"	"	"	"	"	
Nickel	2.12		0.976	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	
Silver	ND		0.0976	"	"	"	"	"	
Zinc	ND		36.1	"	"	"	"	"	

Total Metals by SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB0748	02/15/2025	02/19/2025	
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Origins Laboratory



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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

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 B5A2824 - EPA 5030 (soil)

Blank (B5A2824-BLK1)

Prepared: 01/28/2025 Analyzed: 01/28/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

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 B5A2824 - EPA 5030 (soil)

LCS (B5A2824-BS1)

Prepared: 01/28/2025 Analyzed: 01/28/2025

1,2,4-Trimethylbenzene	0.0896	0.00200	mg/kg	0.100		89.6	70-130			
1,3,5-Trimethylbenzene	0.0930	0.00200	"	0.100		93.0	70-130			
Benzene	0.0900	0.00200	"	0.100		90.0	70-130			
Ethylbenzene	0.0866	0.00200	"	0.100		86.6	70-130			
Naphthalene	0.0892	0.00380	"	0.100		89.2	70-130			
Toluene	0.0868	0.00200	"	0.100		86.8	70-130			
o-Xylene	0.0877	0.00200	"	0.100		87.7	70-130			
m,p-Xylene	0.177	0.00400	"	0.200		88.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.5	70-130			

Origins Laboratory



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

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 B5A2824 - EPA 5030 (soil)

Matrix Spike (B5A2824-MS1)	Source: E5A0581-48				Prepared: 01/28/2025 Analyzed: 01/28/2025					
1,2,4-Trimethylbenzene	0.0906	0.00200	mg/kg	0.100	ND	90.6	70-130			
1,3,5-Trimethylbenzene	0.0938	0.00200	"	0.100	ND	93.8	70-130			
Benzene	0.0799	0.00200	"	0.100	ND	79.9	70-130			
Ethylbenzene	0.0869	0.00200	"	0.100	ND	86.9	70-130			
Naphthalene	0.0874	0.00380	"	0.100	ND	87.4	70-130			
Toluene	0.0831	0.00200	"	0.100	ND	83.1	70-130			
o-Xylene	0.0876	0.00200	"	0.100	ND	87.6	70-130			
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

Origins Laboratory



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

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

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 B5A2824 - EPA 5030 (soil)

Matrix Spike Dup (B5A2824-MSD1)	Source: E5A0581-48			Prepared: 01/28/2025 Analyzed: 01/28/2025						
1,2,4-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100	ND	88.1	70-130	2.75	20	
1,3,5-Trimethylbenzene	0.0917	0.00200	"	0.100	ND	91.7	70-130	2.35	20	
Benzene	0.0798	0.00200	"	0.100	ND	79.8	70-130	0.150	20	
Ethylbenzene	0.0855	0.00200	"	0.100	ND	85.5	70-130	1.65	20	
Naphthalene	0.0966	0.00380	"	0.100	ND	96.6	70-130	10.0	20	
Toluene	0.0822	0.00200	"	0.100	ND	82.2	70-130	1.04	20	
o-Xylene	0.0861	0.00200	"	0.100	ND	86.1	70-130	1.73	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.3	70-130	2.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.4	70-130			

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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

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
Batch B5A2826 - EPA 3550B										
Blank (B5A2826-BLK1)										
					Prepared: 01/28/2025 Analyzed: 01/28/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		76.9	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Extractable Petroleum Hydrocarbons by 8015D - 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 B5A2826 - EPA 3550B

LCS (B5A2826-BS1)

Prepared: 01/28/2025 Analyzed: 01/28/2025

Diesel (C10-C28)	851	50.0	mg/kg	1000		85.1	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000		91.7	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.7	50-150			

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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Extractable Petroleum Hydrocarbons by 8015D - 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 B5A2826 - EPA 3550B

Matrix Spike (B5A2826-MS1)	Source: E5A0581-48		Prepared: 01/28/2025 Analyzed: 01/28/2025							
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130			
Residual Range Organics (C28-C40)	972	200	"	1000	ND	97.2	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.1	50-150			

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Project: KMG - Palombo 23-4L Wellhead

Extractable Petroleum Hydrocarbons by 8015D - 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 B5A2826 - EPA 3550B

Matrix Spike Dup (B5A2826-MSD1)	Source: E5A0581-48			Prepared: 01/28/2025 Analyzed: 01/28/2025						
Diesel (C10-C28)	931	50.0	mg/kg	1000	ND	93.1	70-130	4.19	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	5.80	35	
Surrogate: o-Terphenyl	43		"	49.8		86.7	50-150			

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 Project: KMG - Palombo 23-4L Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - 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 B5A2838 - EPA 3050B

Blank (B5A2838-BLK1)

Prepared: 01/28/2025 Analyzed: 01/29/2025

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B5A2838-BS1)

Prepared: 01/28/2025 Analyzed: 01/29/2025

Arsenic	5.05	0.290	mg/kg	5.00		101	80-120			
Barium	455	10.0	"	500		91.0	80-120			
Cadmium	4.89	0.100	"	5.00		97.8	80-120			
Copper	50.7	10.0	"	50.0		101	80-120			
Lead	4.87	1.00	"	5.00		97.3	80-120			
Nickel	5.11	1.00	"	5.00		102	80-120			
Selenium	5.58	0.260	"	5.00		112	80-120			
Silver	4.97	0.100	"	5.00		99.4	80-120			
Zinc	51.0	37.0	"	50.0		102	80-120			

Matrix Spike (B5A2838-MS1)

Source: E5A0603-05

Prepared: 01/28/2025 Analyzed: 01/29/2025

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Jeremy Espinoza
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 Project: KMG - Palombo 23-4L Wellhead

Metals by EPA 6000/7000 Series Methods - 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 B5A2838 - EPA 3050B

Matrix Spike (B5A2838-MS1)	Source: E5A0603-05				Prepared: 01/28/2025 Analyzed: 01/29/2025					
Arsenic	6.24	0.287	mg/kg	4.94	1.40	97.9	75-125			
Barium	504	9.89	"	494	43.7	93.2	75-125			
Cadmium	5.09	0.0989	"	4.94	0.144	100	75-125			
Copper	57.3	9.89	"	49.4	6.63	102	75-125			
Lead	11.1	0.989	"	4.94	6.45	94.9	75-125			
Nickel	8.55	0.989	"	4.94	3.99	92.3	75-125			
Selenium	5.39	0.257	"	4.94	0.0443	108	75-125			
Silver	5.09	0.0989	"	4.94	0.0500	102	75-125			
Zinc	78.7	36.6	"	49.4	31.0	96.4	75-125			

Matrix Spike Dup (B5A2838-MSD1)	Source: E5A0603-05				Prepared: 01/28/2025 Analyzed: 01/29/2025					
Arsenic	6.13	0.276	mg/kg	4.76	1.40	99.4	75-125	1.79	20	
Barium	493	9.52	"	476	43.7	94.4	75-125	2.27	20	
Cadmium	4.90	0.0952	"	4.76	0.144	100	75-125	3.74	20	
Copper	55.6	9.52	"	47.6	6.63	103	75-125	2.93	20	
Lead	11.1	0.952	"	4.76	6.45	97.0	75-125	0.690	20	
Nickel	8.60	0.952	"	4.76	3.99	96.9	75-125	0.573	20	
Selenium	4.92	0.247	"	4.76	0.0443	102	75-125	9.05	20	
Silver	4.92	0.0952	"	4.76	0.0500	102	75-125	3.43	20	
Zinc	78.1	35.2	"	47.6	31.0	99.0	75-125	0.670	20	

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Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5A2827 - EPA 3580

Blank (B5A2827-BLK1)

Prepared: 01/28/2025 Analyzed: 01/28/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200	99.0	60-130
Surrogate: Anthracene-d10	190		"	200	97.2	60-130
Surrogate: Pyrene-d10	200		"	200	98.8	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	107	60-130

LCS (B5A2827-BS1)

Prepared: 01/28/2025 Analyzed: 01/28/2025

1-Methylnaphthalene	0.220	0.002	mg/kg	0.200	110	70-130
2-Methylnaphthalene	0.217	0.002	"	0.200	109	70-130
Acenaphthene	0.218	0.020	"	0.200	109	70-130
Anthracene	0.198	0.020	"	0.200	99.2	70-130

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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5A2827 - EPA 3580

LCS (B5A2827-BS1)

Prepared: 01/28/2025 Analyzed: 01/28/2025

Benzo (a) anthracene	0.217	0.005	mg/kg	0.200		109	70-130			
Benzo (a) pyrene	0.238	0.020	"	0.200		119	70-130			
Benzo (b) fluoranthene	0.240	0.020	"	0.200		120	70-130			
Benzo (g,h,i) perylene	0.246	0.020	"	0.200		123	70-130			
Benzo (k) fluoranthene	0.227	0.020	"	0.200		114	70-130			
Chrysene	0.219	0.020	"	0.200		109	70-130			
Dibenz (a,h) anthracene	0.236	0.020	"	0.200		118	70-130			
Fluoranthene	0.222	0.020	"	0.200		111	70-130			
Fluorene	0.215	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.248	0.020	"	0.200		124	70-130			
Naphthalene	0.219	0.002	"	0.200		110	70-130			
Phenanthrene	0.225	0.020	"	0.200		113	70-130			
Pyrene	0.222	0.020	"	0.200		111	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B5A2827-MS1)

Source: E5A0581-48

Prepared: 01/28/2025 Analyzed: 01/28/2025

1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	0.0006	109	70-130			
2-Methylnaphthalene	0.216	0.002	"	0.200	ND	108	70-130			
Acenaphthene	0.215	0.020	"	0.200	ND	108	70-130			
Anthracene	0.215	0.020	"	0.200	0.0006	107	70-130			
Benzo (a) anthracene	0.219	0.005	"	0.200	0.001	109	70-130			
Benzo (a) pyrene	0.226	0.020	"	0.200	0.002	112	70-130			
Benzo (b) fluoranthene	0.232	0.020	"	0.200	0.0008	116	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200	0.002	93.5	70-130			

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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5A2827 - EPA 3580

Matrix Spike (B5A2827-MS1)	Source: E5A0581-48			Prepared: 01/28/2025 Analyzed: 01/28/2025						
Benzo (k) fluoranthene	0.219	0.020	mg/kg	0.200	0.0009	109	70-130			
Chrysene	0.230	0.020	"	0.200	0.001	114	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.001	112	70-130			
Fluoranthene	0.217	0.020	"	0.200	0.0008	108	70-130			
Fluorene	0.212	0.020	"	0.200	0.0006	106	70-130			
Indeno (1,2,3-cd) pyrene	0.234	0.020	"	0.200	0.001	116	70-130			
Naphthalene	0.214	0.002	"	0.200	ND	107	70-130			
Phenanthrene	0.218	0.020	"	0.200	ND	109	70-130			
Pyrene	0.219	0.020	"	0.200	0.001	109	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B5A2827-MSD1)	Source: E5A0581-48			Prepared: 01/28/2025 Analyzed: 01/28/2025						
1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.0006	107	70-130	2.20	20	
2-Methylnaphthalene	0.212	0.002	"	0.200	ND	106	70-130	1.58	20	
Acenaphthene	0.209	0.020	"	0.200	ND	104	70-130	3.10	20	
Anthracene	0.210	0.020	"	0.200	0.0006	105	70-130	2.45	20	
Benzo (a) anthracene	0.215	0.005	"	0.200	0.001	107	70-130	1.44	20	
Benzo (a) pyrene	0.245	0.020	"	0.200	0.002	122	70-130	7.95	20	
Benzo (b) fluoranthene	0.237	0.020	"	0.200	0.0008	118	70-130	2.03	20	
Benzo (g,h,i) perylene	0.252	0.020	"	0.200	0.002	125	70-130	28.7	20	QR-02
Benzo (k) fluoranthene	0.238	0.020	"	0.200	0.0009	118	70-130	8.26	20	
Chrysene	0.212	0.020	"	0.200	0.001	105	70-130	8.03	20	
Dibenz (a,h) anthracene	0.238	0.020	"	0.200	0.001	118	70-130	5.15	20	
Fluoranthene	0.212	0.020	"	0.200	0.0008	106	70-130	2.27	20	

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Project: KMG - Palombo 23-4L Wellhead

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5A2827 - EPA 3580

Matrix Spike Dup (B5A2827-MSD1)	Source: E5A0581-48			Prepared: 01/28/2025 Analyzed: 01/28/2025						
Fluorene	0.202	0.020	mg/kg	0.200	0.0006	101	70-130	5.13	20	
Indeno (1,2,3-cd) pyrene	0.242	0.020	"	0.200	0.001	120	70-130	3.43	20	
Naphthalene	0.211	0.002	"	0.200	ND	106	70-130	1.59	20	
Phenanthrene	0.215	0.020	"	0.200	ND	108	70-130	1.18	20	
Pyrene	0.210	0.020	"	0.200	0.001	104	70-130	4.04	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	190		"	200		96.9	60-130			
Surrogate: Pyrene-d10	190		"	200		95.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

Classical Chemistry Parameters - 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 B5A2846 - Saturated Paste Metals

Blank (B5A2846-BLK1)

Prepared: 01/28/2025 Analyzed: 01/31/2025

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B5A2846-DUP1)

Source: E5A0598-05

Prepared: 01/28/2025 Analyzed: 01/31/2025

Calcium PPM	52.1	10.0	mg/L	56.2	7.59	50
SAR	ND	0.0100	SAR	0.198		200
Magnesium PPM	11.3	10.0	mg/L	12.2	7.74	50
Sodium PPM	5.87	10.0	"	6.27	6.59	50

Batch B5A2848 - DTPA Sorbitol Preparation

Blank (B5A2848-BLK1)

Prepared: 01/28/2025 Analyzed: 01/30/2025

Boron	ND	0.100	mg/L
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Duplicate (B5A2848-DUP1)

Source: E5A0601-08

Prepared: 01/28/2025 Analyzed: 01/30/2025

Boron	0.145	0.101	mg/L	0.137	5.83	50
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Batch B5A2903 - Saturated Paste Metals

Blank (B5A2903-BLK1)

Prepared: 01/29/2025 Analyzed: 01/31/2025

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Classical Chemistry Parameters - 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 B5A2903 - Saturated Paste Metals

Duplicate (B5A2903-DUP1)	Source: E5A0604-05				Prepared: 01/29/2025 Analyzed: 01/31/2025					
Calcium PPM	22.9	10.0	mg/L		19.3			17.1	50	
SAR	ND	0.0100	SAR		3.87				200	
Magnesium PPM	5.28	10.0	mg/L		4.54			15.1	50	
Sodium PPM	82.5	10.0	"		72.6			12.7	50	

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Ensolium
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Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

Saturated Paste - 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 B5A2909 - Saturated Paste pH/EC

Blank (B5A2909-BLK1)

Prepared: 01/29/2025 Analyzed: 01/30/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5A2909-DUP1)

Source: E5A0598-05

Prepared: 01/29/2025 Analyzed: 01/30/2025

pH 8.34 pH Units 8.35 0.120 25

Specific Conductance (EC) 0.458 0.00500 mmhos/cm 0.509 10.7 25

Batch B5A2910 - Saturated Paste pH/EC

Blank (B5A2910-BLK1)

Prepared: 01/29/2025 Analyzed: 01/30/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5A2910-DUP1)

Source: E5A0604-05

Prepared: 01/29/2025 Analyzed: 01/30/2025

Specific Conductance (EC) 0.590 0.00500 mmhos/cm 0.507 15.2 25

pH 8.48 pH Units 8.31 2.03 25

Batch B5A2913 - Saturated Paste pH/EC

Duplicate (B5A2913-DUP1)

Source: E5A0571-03

Prepared: 01/29/2025 Analyzed: 01/30/2025

pH 7.59 pH Units 7.80 2.73 25

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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

Total Metals by SW7196 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIB0748 - No Prep Wet Chem										
Blank (BIB0748-BLK1)					Prepared: 02/15/2025 Analyzed: 02/19/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
LCS (BIB0748-BS1)					Prepared: 02/15/2025 Analyzed: 02/19/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		104	80-120			
LCS (BIB0748-BS2)					Prepared: 02/15/2025 Analyzed: 02/19/2025					
Chromium, Hexavalent	7.20	1.00	mg/kg	8.31		86.6	80-120			
Matrix Spike (BIB0748-MS1)					Source: 25A1636-01 Prepared: 02/15/2025 Analyzed: 02/19/2025					
Chromium, Hexavalent	1.93	0.20	mg/kg	2.01	ND	96.0	75-125			
Matrix Spike Dup (BIB0748-MSD1)					Source: 25A1636-01 Prepared: 02/15/2025 Analyzed: 02/19/2025					
Chromium, Hexavalent	1.91	0.20	mg/kg	1.99	ND	96.0	75-125	1.18	20	

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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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