



July 03, 2024

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bayswater - WAAG North Offsite BGs**      **Project Number - [none]**

Attached are your analytical results for Bayswater - WAAG North Offsite BGs received by Origins Laboratory, Inc. June 19, 2024. This project is associated with Origins project number Y406569-01.

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, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

David Castro  
 Project Number: [none]  
 Project: Bayswater - WAAG North Offsite BGs

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-01@0.5'	Y406569-01	Soil	June 19, 2024 12:17	06/19/2024 16:49
BG-01@4'	Y406569-02	Soil	June 19, 2024 12:45	06/19/2024 16:49
BG-01@6.5'	Y406569-03	Soil	June 19, 2024 12:52	06/19/2024 16:49
BG-02@0.5'	Y406569-04	Soil	June 19, 2024 12:56	06/19/2024 16:49
BG-02@4'	Y406569-05	Soil	June 19, 2024 13:14	06/19/2024 16:49
BG-02@6.5'	Y406569-06	Soil	June 19, 2024 13:25	06/19/2024 16:49

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

David Castro  
 Project Number: [none]  
 Project: Bayswater - WAAG North Offsite BGs

# ORIGINS

ORIGINS WORK ORDER #

1406569

Page 1 of 1

LABORATORY INC  
 Client: Eagle Environmental Consulting

Project Manager: David Castro

Key:

Address: 8000 W 44th Ave

Project Name: WAAG North Offsite BGs

W=Water

Telephone Number: 303-433-0994

Project Number: 1406569

GW=Groundwater

Email Address: davidc@eagle-env.com

Collected By: SL

SW=Surface Water

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

Invoice/Billing Info: Bill to Eagle Env

WW=Waste Water

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis					Comments
							ION	SAR	PH	915-1 Metals		
1	BG-01-00.5'	6/19/24	1219	2	S	UNP	X	X	X	X		
2	BG-01-01'		1248				X	X	X	X		
3	BG-01-06.5'		1252				X	X	X	X		
4	BG-07-00.5'		1256				X	X	X	X		
5	BG-02-01'		1314				X	X	X	X		
6	BG-02-01.5'		1314				X	X	X	X		
7	BG-02-01.5'		1325				X	X	X	X		
8												
9												
10												

Relinquished By: *[Signature]* Date: 6/19/24 Time: 1:19  
 Received By: *[Signature]* Date: 6/19/24 Time: 1:49

Temp Received: 15 Received On Ice?  Yes  No  
 Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr  
 Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory, Inc.  
*[Signature]*

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Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 140656A

Client: Eagle

Client Project ID: WAAG N

Checklist Completed by: EHO

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

Date/time completed: 6/19/24

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>SD</u>
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with Na <sub>2</sub> SO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>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.

Reviewed by: ASD (Project Manager)

Date/Time Reviewed: 6/21/24 0935

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

David Castro  
 Project Number: [none]  
 Project: Bayswater - WAAG North Offsite BGs

**BG-01@0.5'**

**6/19/2024 12:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.40		0.100	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.88		0.499	meq/L	10	[CALC]	06/21/2024	06/24/2024	
Magnesium	1.40		0.823	"	"	"	"	"	
Sodium	0.617		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.42			pH Units	1	B4F2120	06/21/2024	06/21/2024	
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**SAR by 20B Saturated Paste**

SAR	0.422		0.0100	SAR	1	B4F2110	06/21/2024	06/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.430		0.00500	mmhos/cm	1	B4F2120	06/21/2024	06/21/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	6.40		0.258	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Barium	326		8.90	"	"	"	"	"	
Cadmium	0.298		0.0890	"	"	"	"	"	
Copper	14.6		8.90	"	"	"	"	"	

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**BG-01@0.5'**

**6/19/2024 12:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-01 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	11.5		0.890	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Nickel	12.4		0.890	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	"	
Zinc	57.9		32.9	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.131	0.328	mg/kg dry	1	2634514	07/01/2024	07/02/2024	U
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**BG-01@4'**

**6/19/2024 12:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.304		0.0995	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.10		0.499	meq/L	10	[CALC]	06/21/2024	06/24/2024	
Magnesium	2.52		0.823	"	"	"	"	"	
Sodium	3.20		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.46			pH Units	1	B4F2120	06/21/2024	06/21/2024	
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**SAR by 20B Saturated Paste**

SAR	1.76		0.0100	SAR	1	B4F2110	06/21/2024	06/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.994		0.00500	mmhos/cm	1	B4F2120	06/21/2024	06/21/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.65		0.273	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Barium	306		9.41	"	"	"	"	"	
Cadmium	0.147		0.0941	"	"	"	"	"	
Copper	ND		9.41	"	"	"	"	"	

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**BG-01@4'**

**6/19/2024 12:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-02 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	8.60		0.941	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Nickel	7.58		0.941	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	ND		0.0941	"	"	"	"	"	
Zinc	ND		34.8	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	0.296	0.150	0.376	mg/kg dry	1	2634514	07/01/2024	07/02/2024	J
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**BG-01@6.5'**  
**6/19/2024 12:52:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.293		0.0994	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.74		0.499	meq/L	10	[CALC]	06/21/2024	06/24/2024	
Magnesium	2.76		0.823	"	"	"	"	"	
Sodium	2.82		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.52			pH Units	1	B4F2120	06/21/2024	06/21/2024	
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**SAR by 20B Saturated Paste**

SAR	1.70		0.0100	SAR	1	B4F2110	06/21/2024	06/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.868		0.00500	mmhos/cm	1	B4F2120	06/21/2024	06/21/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.71		0.251	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Barium	276		8.67	"	"	"	"	"	
Cadmium	0.252		0.0867	"	"	"	"	"	
Copper	14.1		8.67	"	"	"	"	"	

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**BG-01@6.5'**

**6/19/2024 12:52:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-03 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	15.0		0.867	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Nickel	13.0		0.867	"	"	"	"	"	
Selenium	ND		0.225	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	
Zinc	57.9		32.1	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	0.321	0.127	0.318	mg/kg dry	1	2634514	07/01/2024	07/02/2024	
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David Castro  
 Project Number: [none]  
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**BG-02@0.5'**

**6/19/2024 12:56:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.40		0.100	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.81		0.499	meq/L	10	[CALC]	06/21/2024	06/24/2024	
Magnesium	1.26		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B4F2120	06/21/2024	06/21/2024	
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**SAR by 20B Saturated Paste**

SAR	0.240		0.0100	SAR	1	B4F2110	06/21/2024	06/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.385		0.00500	mmhos/cm	1	B4F2120	06/21/2024	06/21/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	6.00		0.270	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Barium	336		9.32	"	"	"	"	"	
Cadmium	0.302		0.0932	"	"	"	"	"	
Copper	13.6		9.32	"	"	"	"	"	

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**BG-02@0.5'**

**6/19/2024 12:56:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-04 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	11.2		0.932	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Nickel	11.8		0.932	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	ND		0.0932	"	"	"	"	"	
Zinc	55.1		34.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.106	0.265	mg/kg dry	1	2634514	07/01/2024	07/02/2024	U
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David Castro  
 Project Number: [none]  
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**BG-02@4'**

**6/19/2024 1:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.314		0.0988	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.46		0.499	meq/L	10	[CALC]	06/21/2024	06/24/2024	
Magnesium	2.68		0.823	"	"	"	"	"	
Sodium	3.20		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.51			pH Units	1	B4F2120	06/21/2024	06/21/2024	
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**SAR by 20B Saturated Paste**

SAR	1.69		0.0100	SAR	1	B4F2110	06/21/2024	06/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.04		0.00500	mmhos/cm	1	B4F2120	06/21/2024	06/21/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.83		0.277	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Barium	332		9.57	"	"	"	"	"	
Cadmium	0.160		0.0957	"	"	"	"	"	
Copper	ND		9.57	"	"	"	"	"	

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**BG-02@4'**

**6/19/2024 1:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-05 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	7.59		0.957	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Nickel	7.62		0.957	"	"	"	"	"	
Selenium	ND		0.249	"	"	"	"	"	
Silver	ND		0.0957	"	"	"	"	"	
Zinc	ND		35.4	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	0.296	0.132	0.329	mg/kg dry	1	2634514	07/01/2024	07/02/2024	J
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David Castro  
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**BG-02@6.5'**  
**6/19/2024 1:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	3.00		0.0989	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.01		0.499	meq/L	10	[CALC]	06/21/2024	06/24/2024	
Magnesium	3.05		0.823	"	"	"	"	"	
Sodium	2.96		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.46			pH Units	1	B4F2120	06/21/2024	06/21/2024	
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**SAR by 20B Saturated Paste**

SAR	1.70		0.0100	SAR	1	B4F2110	06/21/2024	06/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.908		0.00500	mmhos/cm	1	B4F2120	06/21/2024	06/21/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.71		0.260	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Barium	182		8.98	"	"	"	"	"	
Cadmium	0.274		0.0898	"	"	"	"	"	
Copper	14.3		8.98	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

David Castro  
 Project Number: [none]  
 Project: Bayswater - WAAG North Offsite BGs

**BG-02@6.5'**  
**6/19/2024 1:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406569-06 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	14.5		0.898	mg/kg	10	B4F2020	06/20/2024	06/21/2024	
Nickel	12.9		0.898	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0898	"	"	"	"	"	
Zinc	58.5		33.2	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	0.397	0.177	0.442	mg/kg dry	1	2634514	07/01/2024	07/02/2024	J
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 Project: Bayswater - WAAG North Offsite BGs

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F2020 - EPA 3050B**

**Blank (B4F2020-BLK1)**

Prepared: 06/20/2024 Analyzed: 06/21/2024

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 (B4F2020-BS1)**

Prepared: 06/20/2024 Analyzed: 06/21/2024

Arsenic	5.63	0.290	mg/kg	5.00		113	80-120			
Barium	560	10.0	"	500		112	80-120			
Cadmium	5.81	0.100	"	5.00		116	80-120			
Copper	55.0	10.0	"	50.0		110	80-120			
Lead	5.49	1.00	"	5.00		110	80-120			
Nickel	5.52	1.00	"	5.00		110	80-120			
Selenium	10.3	0.260	"	9.50		108	80-120			
Silver	5.72	0.100	"	5.00		114	80-120			
Zinc	55.2	37.0	"	50.0		110	80-120			

**Matrix Spike (B4F2020-MS1)**

Source: Y406569-01

Prepared: 06/20/2024 Analyzed: 06/21/2024

Arsenic	11.9	0.268	mg/kg	4.62	6.40	118	75-125			
Barium	924	9.24	"	462	326	129	75-125			QM-07
Cadmium	5.77	0.0924	"	4.62	0.298	118	75-125			
Copper	65.4	9.24	"	46.2	14.6	110	75-125			
Lead	16.4	0.924	"	4.62	11.5	106	75-125			

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F2020 - EPA 3050B**

**Matrix Spike (B4F2020-MS1)**

**Source: Y406569-01**

Prepared: 06/20/2024 Analyzed: 06/21/2024

Nickel	17.7	0.924	mg/kg	4.62	12.4	114	75-125			
Selenium	10.1	0.240	"	8.78	0.216	112	75-125			
Silver	5.46	0.0924	"	4.62	0.0445	117	75-125			
Zinc	109	34.2	"	46.2	57.9	111	75-125			

**Matrix Spike Dup (B4F2020-MSD1)**

**Source: Y406569-01**

Prepared: 06/20/2024 Analyzed: 06/21/2024

Arsenic	11.4	0.263	mg/kg	4.53	6.40	109	75-125	4.43	20	
Barium	877	9.07	"	453	326	121	75-125	5.16	20	
Cadmium	5.50	0.0907	"	4.53	0.298	115	75-125	4.71	20	
Copper	61.5	9.07	"	45.3	14.6	104	75-125	6.13	20	
Lead	16.1	0.907	"	4.53	11.5	101	75-125	2.04	20	
Nickel	16.9	0.907	"	4.53	12.4	98.0	75-125	4.73	20	
Selenium	9.09	0.236	"	8.62	0.216	103	75-125	10.2	20	
Silver	5.18	0.0907	"	4.53	0.0445	113	75-125	5.38	20	
Zinc	103	33.6	"	45.3	57.9	98.4	75-125	6.47	20	

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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F2012 - DTPA Sorbitol Preparation**

**Blank (B4F2012-BLK1)**

Prepared: 06/20/2024 Analyzed: 06/21/2024

Boron ND 0.100 mg/L

**Duplicate (B4F2012-DUP1)**

**Source: Y406565-07**

Prepared: 06/20/2024 Analyzed: 06/21/2024

Boron 0.275 0.0996 mg/L 0.276 0.230 50

**Batch B4F2110 - Saturated Paste Metals**

**Blank (B4F2110-BLK1)**

Prepared: 06/21/2024 Analyzed: 06/24/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

**Duplicate (B4F2110-DUP1)**

**Source: Y406569-01**

Prepared: 06/21/2024 Analyzed: 06/24/2024

Calcium PPM 54.2 10.0 mg/L 57.8 6.32 50

SAR ND 0.0100 SAR 0.422 200

Magnesium PPM 15.7 10.0 mg/L 17.1 8.11 50

Sodium PPM 11.2 10.0 " 14.2 23.1 50

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 Project: Bayswater - WAAG North Offsite BGs

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F2120 - Saturated Paste pH/EC**

**Blank (B4F2120-BLK1)**

Prepared: 06/21/2024 Analyzed: 06/21/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4F2120-DUP1)**

**Source: Y406569-01**

Prepared: 06/21/2024 Analyzed: 06/21/2024

Specific Conductance (EC)	0.427	0.00500	mmhos/cm		0.430		0.677	25	
pH	8.43		pH Units		8.42		0.119	25	

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David Castro  
 Project Number: [none]  
 Project: Bayswater - WAAG North Offsite BGs

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2634514 - SW846 3060A</b>										
<b>BLANK (1205777599-BLK)</b>					Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
<b>LCS (1205777600-BKS)</b>					Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	3.62	0.367	mg/kg	3.67		98.5	80-120			
<b>DUP (1205777601 D)</b>					Source: 672623001 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	ND	0.275	mg/kg dry		<0.110		0-50	N/A	50	U
<b>MS (1205777602 S)</b>					Source: 672623001 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	2.10	0.275	mg/kg dry	2.75	<0.110	75.2	75-125			
<b>DUP (1205777603 D)</b>					Source: Y406569-05 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	0.260	0.330	mg/kg dry		0.296		0-50	12.9	50	J
<b>MS (1205777604 S)</b>					Source: Y406569-05 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	2.34	0.330	mg/kg dry	3.30	0.296	61.9	75-125			
<b>ILCS (1205777605-ILCS)</b>					Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	7.86	0.376	mg/kg	7.57		104	80-120			

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### Notes and Definitions

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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Jordan A. Bynon, Project Manager