



September 27, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Baker State B #36-12

Project Number - [none]

Attached are your analytical results for Noble - Baker State B #36-12 received by Origins Laboratory, Inc. August 30, 2022. This project is associated with Origins project number Y208696-01.

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.

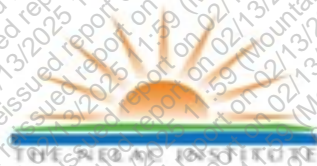
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Baker State B #36-12

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y208696-01	Soil	August 30, 2022 8:32	08/30/2022 10:30
WH-SS-02@5'	Y208696-02	Soil	August 30, 2022 8:34	08/30/2022 10:30
WH-SS-03@5'	Y208696-03	Soil	August 30, 2022 8:35	08/30/2022 10:30
WH-SS-04@5'	Y208696-04	Soil	August 30, 2022 8:36	08/30/2022 10:30
WH-FS-01@6'	Y208696-05	Soil	August 30, 2022 8:37	08/30/2022 10:30

### Chain of Custody Modification Request

On 9/20/2022, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y208696 requesting that Table 915 Metals be added to WH-SS-02@5'.

Requested modifications to the chain of custody were made by Jordan Bynon on 9/20/2022.

Origins Laboratory, Inc.



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# ORIGINS LABORATORY, INC

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Baker State B #36-12

Origins Laboratory

### Sample Receipt Checklist

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

Origins Work Order: Y208696

Client: Eagle  
Client Project ID: Baker State B #36

Checklist Completed by: MS  
Date/time completed: 8/30/22

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

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

Cooler Number/Temperature: 1 4.1 °C    °C    °C (Describe)

Thermometer ID: T004

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> ?	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)		T		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		T		
Were all samples received intact <sup>(1)</sup> ?	T			
Was adequate sample volume provided <sup>(1)</sup> ?	T			
Are short holding time analyses or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	T			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	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 <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 NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
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 (Project Manager): MS

Date/Time Reviewed: 8/31/22

Origins Laboratory, Inc.



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Jordan A. Bynon For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**WH-SS-01@5'**  
**8/30/2022 8:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.714		0.0986	mg/L	1	B2H3105	08/31/2022	09/01/2022	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2H3015	08/30/2022	09/14/2022	B, U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.8% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H3123	08/31/2022	09/05/2022	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 98.1% 70-130 " " " "

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Martin C Eckert III  
 Project Number: [none]  
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**WH-SS-01@5'**  
**8/30/2022 8:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.6 %		70-130			B2H31 23	08/31/2022	09/05/2022	
Surrogate: 4-Bromofluorobenzene	92.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	6.25		0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022	
Magnesium	3.76		0.823	"	"	"	"	"	
Sodium	2.96		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00046	0.000364	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	J
2-Methylnaphthalene	0.000735	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000738	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00069	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000541	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

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**8/30/2022 8:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**

**Y208696-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.94			pH Units	1	B2H3108	08/31/2022	09/01/2022	
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**SAR by 20B Saturated Paste**

SAR	1.32			SAR	1	B2H3102	08/31/2022	09/01/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.38	0.00500		mmhos/cm	1	B2H3108	08/31/2022	09/01/2022	
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 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**WH-SS-02@5'**

**8/30/2022 8:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.614		0.0995	mg/L	1	B2H3105	08/31/2022	09/01/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2H3015	08/30/2022	09/14/2022	B, U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.3% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00514		0.00200	mg/kg	1	B2H3123	08/31/2022	09/05/2022	
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 101% 70-130 " " " "  
 Surrogate: Toluene-d8 94.8% 70-130 " " " "

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**WH-SS-02@5'**  
**8/30/2022 8:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	95.1 %		70-130			B2H31 23	08/31/2022	09/05/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	5.74		0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022	
Magnesium	3.21		0.823	"	"	"	"	"	
Sodium	0.884		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00867	0.000364	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
2-Methylnaphthalene	0.0184	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.00173	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000939	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000934	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0012	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000712	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00279	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

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**WH-SS-02@5'**  
**8/30/2022 8:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y208696-02 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.00305	0.000484	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
Pyrene	0.000987	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.94			pH Units	1	B2H3108	08/31/2022	09/01/2022	
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**SAR by 20B Saturated Paste**

SAR	0.418			SAR	1	B2H3102	08/31/2022	09/01/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.13		0.00500	mmhos/cm	1	B2H3108	08/31/2022	09/01/2022	
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**Table 915 metals by EPA 6020B**

Arsenic	1.82		0.0969	mg/kg	10	B2I2102	09/21/2022	09/22/2022	
Barium	117		9.69	"	"	"	"	"	
Cadmium	ND		0.0969	"	"	"	"	"	

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Baker State B #36-12

WH-SS-02@5'

8/30/2022 8:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y208696-02 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.69	mg/kg	10	B212102	09/21/2022	09/22/2022	
Lead	ND		9.69	"	"	"	"	"	"
Nickel	ND		9.69	"	"	"	"	"	"
Selenium	ND		0.0969	"	"	"	"	"	"
Silver	ND		0.0969	"	"	"	"	"	"
Zinc	ND		96.9	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L639520	08/30/2022	09/26/2022	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**WH-SS-03@5'**  
**8/30/2022 8:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.558		0.0983	mg/L	1	B2H3105	08/31/2022	09/01/2022	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2H3015	08/30/2022	09/14/2022	B, U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.2 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H3123	08/31/2022	09/05/2022	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	97.7 %		70-130	"	"	"	"	"	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**WH-SS-03@5'**  
**8/30/2022 8:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.7 %		70-130			B2H31 23	08/31/2022	09/05/2022	
Surrogate: 4-Bromofluorobenzene	92.0 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	4.82		0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022	
Magnesium	2.76		0.823	"	"	"	"	"	
Sodium	2.18		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000404	0.000364	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	J
2-Methylnaphthalene	0.000895	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00101	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000996	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000678	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000825	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000322	0.000286	0.00067	"	"	"	"	"	J

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**WH-SS-03@5'**  
**8/30/2022 8:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y208696-03 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	<b>0.000879</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.5 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	62.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	55.3 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	<b>8.07</b>			pH Units	1	B2H3108	08/31/2022	09/01/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>1.12</b>			SAR	1	B2H3102	08/31/2022	09/01/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>1.15</b>		0.00500	mmhos/cm	1	B2H3108	08/31/2022	09/01/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**WH-SS-04@5'**  
**8/30/2022 8:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.435		0.101	mg/L	1	B2H3105	08/31/2022	09/01/2022	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2H3015	08/30/2022	09/14/2022	B, U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.3%		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H3123	08/31/2022	09/05/2022	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	99.4%		70-130	"	"	"	"	"	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

WH-SS-04@5'

8/30/2022 8:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	92.4 %		70-130			B2H31 23	08/31/2022	09/05/2022	
Surrogate: 4-Bromofluorobenzene	95.0 %		70-130			"	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	7.38		0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022	
Magnesium	4.46		0.823	"	"	"	"	"	
Sodium	5.04		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**WH-SS-04@5'**

**8/30/2022 8:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**

**Y208696-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	65.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	58.8 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	<b>8.02</b>			pH Units	1	B2H3108	08/31/2022	09/01/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>2.07</b>			SAR	1	B2H3102	08/31/2022	09/01/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>1.63</b>		0.00500	mmhos/cm	1	B2H3108	08/31/2022	09/01/2022	
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Origins Laboratory, Inc.



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


Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

WH-FS-01@6'

8/30/2022 8:37:00AM

Origins Laboratory, Inc.  
 Y208696-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.570		0.0988	mg/L	1	B2H3105	08/31/2022	09/01/2022	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B2H3015	08/30/2022	09/14/2022	B, U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.1%		50-150	"	"	"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H3123	08/31/2022	09/05/2022	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	97.9%		70-130	"	"	"	"	"	

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

WH-FS-01@6'

8/30/2022 8:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208696-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	92.9 %		70-130			B2H31 23	08/31/2022	09/05/2022	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	11.2		0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022	
Magnesium	9.85		0.823	"	"	"	"	"	
Sodium	7.85		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00169	0.000364	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
2-Methylnaphthalene	0.002	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.000602	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000879	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000925	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00135	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000932	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000583	0.000286	0.00067	"	"	"	"	"	J

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

WH-FS-01@6'

8/30/2022 8:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y208696-05 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	0.000673	0.000627	0.00067	mg/Kg	1	L635406	09/01/2022	09/01/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	0.00246	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.9 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	59.8 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	59.8 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	7.93			pH Units	1	B2H3108	08/31/2022	09/01/2022	
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**SAR by 20B Saturated Paste**

SAR	2.42			SAR	1	B2H3102	08/31/2022	09/01/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.53		0.00500	mmhos/cm	1	B2H3108	08/31/2022	09/01/2022	
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Baker State B #36-12

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2H3015 - EPA 3550B

Blank (B2H3015-BLK1)

Prepared: 08/30/2022 Analyzed: 09/03/2022

Diesel (C10-C28)	38.9	25.0	mg/kg							B
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		117	50-150			

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2H3015 - EPA 3550B**

**LCS (B2H3015-BS1)**

Prepared: 08/30/2022 Analyzed: 09/03/2022

Diesel (C10-C28)	513	25.0	mg/kg	500		103	70-130			
Residual Range Organics (C28-C40)	525	100	"	500		105	70-130			
Surrogate: o-Terphenyl	32		"	24.9		129	50-150			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2H3015 - EPA 3550B**

**Matrix Spike (B2H3015-MS1)**

**Source: Y208663-01**

Prepared: 08/30/2022 Analyzed: 09/03/2022

Diesel (C10-C28)	606	25.0	mg/kg	500	88.2	104	70-130			
Residual Range Organics (C28-C40)	427	100	"	500	50.9	75.2	70-130			
Surrogate: o-Terphenyl	24		"	24.9		97.3	50-150			

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2H3015 - EPA 3550B**

**Matrix Spike Dup (B2H3015-MSD1)**

**Source: Y208663-01**

Prepared: 08/30/2022 Analyzed: 09/03/2022

Diesel (C10-C28)	646	25.0	mg/kg	500	88.2	112	70-130	6.42	35	
Residual Range Organics (C28-C40)	479	100	"	500	50.9	85.6	70-130	11.4	35	
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Origins Laboratory, Inc.

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2H3123 - EPA 5030 (soil)

Blank (B2H3123-BLK1)

Prepared: 08/31/2022 Analyzed: 09/04/2022

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	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2H3123 - EPA 5030 (soil)

LCS (B2H3123-BS1)

Prepared: 08/31/2022 Analyzed: 09/04/2022

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.0969	0.00380	"	0.100		96.9	70-130			
Toluene	0.0997	0.00200	"	0.100		99.7	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2H3123 - EPA 5030 (soil)

Matrix Spike (B2H3123-MS1)

Source: Y208677-01

Prepared: 08/31/2022 Analyzed: 09/04/2022

1,2,4-Trimethylbenzene	0.0776	0.00200	mg/kg	0.100	0.000880	76.7	70-130			
1,3,5-Trimethylbenzene	0.0796	0.00200	"	0.100	0.000520	79.0	70-130			
Benzene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
Naphthalene	0.0615	0.00380	"	0.100	0.00100	60.5	70-130			QM-07
Toluene	0.0752	0.00200	"	0.100	ND	75.2	70-130			
o-Xylene	0.0825	0.00200	"	0.100	0.000520	82.0	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	0.00148	84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2H3123 - EPA 5030 (soil)

Matrix Spike Dup (B2H3123-MSD1)

Source: Y208677-01

Prepared: 08/31/2022 Analyzed: 09/04/2022

1,2,4-Trimethylbenzene	0.0807	0.00200	mg/kg	0.100	0.000880	79.8	70-130	3.94	20	
1,3,5-Trimethylbenzene	0.0808	0.00200	"	0.100	0.000520	80.3	70-130	1.55	20	
Benzene	0.0832	0.00200	"	0.100	ND	83.2	70-130	5.84	20	
Ethylbenzene	0.0822	0.00200	"	0.100	ND	82.2	70-130	2.81	20	
Naphthalene	0.0727	0.00380	"	0.100	0.00100	71.7	70-130	16.8	20	
Toluene	0.0800	0.00200	"	0.100	ND	80.0	70-130	6.21	20	
o-Xylene	0.0825	0.00200	"	0.100	0.000520	82.0	70-130	0.0242	20	
m,p-Xylene	0.166	0.00400	"	0.200	0.00148	82.3	70-130	2.85	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**\*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 B2I2102 - Default Prep Metals**

**Blank (B2I2102-BLK1)**

Prepared: 09/21/2022 Analyzed: 09/23/2022

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B2I2102-BS1)**

Prepared: 09/21/2022 Analyzed: 09/22/2022

Arsenic	0.0499	0.000100	mg/kg	0.0500		99.7	80-120			
Barium	5.15	0.0100	"	5.00		103	80-120			
Cadmium	0.0535	0.000100	"	0.0500		107	80-120			
Copper	0.532	0.0100	"	0.500		106	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0538	0.0100	"	0.0500		108	80-120			
Selenium	0.0497	0.000100	"	0.0500		99.4	80-120			
Silver	0.0472	0.000100	"	0.0500		94.5	80-120			
Zinc	0.543	0.100	"	0.500		109	80-120			

**Matrix Spike (B2I2102-MS1)**

Source: Y209243-02

Prepared: 09/21/2022 Analyzed: 09/22/2022

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**\*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 B212102 - Default Prep Metals**

**Matrix Spike (B212102-MS1)**

**Source: Y209243-02**

Prepared: 09/21/2022 Analyzed: 09/22/2022

Arsenic	7.94	0.0949	mg/kg	4.75	2.03	124	75-125			
Barium	622	9.49	"	475	41.1	122	75-125			
Cadmium	5.99	0.0949	"	4.75	0.131	124	75-125			
Copper	64.3	9.49	"	47.5	6.75	121	75-125			
Lead	14.0	9.49	"	4.75	6.43	159	75-125			
Nickel	13.1	9.49	"	4.75	5.97	151	75-125			
Selenium	5.16	0.0949	"	4.75	0.116	106	75-125			
Silver	5.21	0.0949	"	4.75	0.0253	109	75-125			
Zinc	89.0	94.9	"	47.5	24.1	137	75-125			

**Matrix Spike Dup (B212102-MSD1)**

**Source: Y209243-02**

Prepared: 09/21/2022 Analyzed: 09/22/2022

Arsenic	6.73	0.0949	mg/kg	4.75	2.03	99.0	75-125	16.4	20	
Barium	563	9.49	"	475	41.1	110	75-125	10.1	20	
Cadmium	5.39	0.0949	"	4.75	0.131	111	75-125	10.6	20	
Copper	56.9	9.49	"	47.5	6.75	106	75-125	12.1	20	
Lead	11.7	9.49	"	4.75	6.43	111	75-125	17.6	20	
Nickel	11.1	9.49	"	4.75	5.97	109	75-125	16.4	20	
Selenium	4.96	0.0949	"	4.75	0.116	102	75-125	4.07	20	
Silver	4.77	0.0949	"	4.75	0.0253	100	75-125	8.70	20	
Zinc	76.2	94.9	"	47.5	24.1	110	75-125	15.6	20	

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 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**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 B2H3102 - Default Prep Metals**

**Blank (B2H3102-BLK1)** Prepared: 08/31/2022 Analyzed: 09/01/2022

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B2H3102-DUP1)** Source: Y208673-03 Prepared: 08/31/2022 Analyzed: 09/01/2022

SAR	0.00		SAR	2.92				200	200	
Calcium PPM	22.2	10.0	mg/L	27.6				21.5	50	
Magnesium PPM	5.63	10.0	"	6.95				21.0	50	
Sodium PPM	55.3	10.0	"	66.2				18.0	50	

**Batch B2H3105 - Default Prep Metals**

**Blank (B2H3105-BLK1)** Prepared: 08/31/2022 Analyzed: 09/01/2022

Boron	ND	0.100	mg/L							
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**Duplicate (B2H3105-DUP1)** Source: Y208673-03 Prepared: 08/31/2022 Analyzed: 09/01/2022

Boron	0.355	0.0989	mg/L	0.206				53.0	50	QR-DUP
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**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 B2H3108 - NO PREP**

**Blank (B2H3108-BLK1)**

Prepared: 08/31/2022 Analyzed: 09/01/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm  
 pH 0.00 pH Units

**Duplicate (B2H3108-DUP1)**

**Source: Y208673-03**

Prepared: 08/31/2022 Analyzed: 09/01/2022

pH 8.11 pH Units 7.93 2.24 25  
 Specific Conductance (EC) 0.429 0.00500 mmhos/cm 0.520 19.1 25

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L639520 -

**DUP (L 86483-DUP)**

Source: 86483

Prepared: Analyzed: 09/26/2022

Chromium, Hexavalent ND 0.5 mg/Kg <0.500 - 0 20

**MS (L 86483-MS)**

Source: 86483

Prepared: Analyzed: 09/26/2022

Chromium, Hexavalent 31.9 2.5 mg/Kg 39.4 < 0.244 81 75-125

**MSD (L 86483-MSD)**

Source: 86483

Prepared: Analyzed: 09/26/2022

Chromium, Hexavalent 601 50 mg/Kg 694 <24.4 87 75-125

**LCS (LCS)**

Prepared: Analyzed: 09/26/2022

Chromium, Hexavalent 7.65 0.5 mg/Kg 8 96 75-125

**LRB (LRB)**

Prepared: Analyzed: 09/26/2022

Chromium, Hexavalent ND 0.5 mg/Kg - -

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L635406 - 3550B**

**MSD (L 83369-MSD-L635406)**

**Source: 83369**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Pyrene	0.133	0.000643	mg/Kg	0.164	<0.000643	81	30-130	0.7	30	
Benzo(b)fluoranthene	0.127	0.000585	"	0.164	<0.000585	77.4	30-130	9.7	30	
Benzo(a)pyrene	0.139	0.000468	"	0.164	<0.000468	84.7	30-130	0	30	
1-Methylnaphthalene	0.154	0.000364	"	0.164	0.0435	67.3	30-130	9.2	30	
2-Methylnaphthalene	0.186	0.000645	"	0.164	0.0879	59.8	30-130	11.1	30	
Acenaphthene	0.112	0.000304	"	0.164	0.00739	63.7	30-130	0.8	30	
Chrysene	0.128	0.000624	"	0.164	<0.000624	78	30-130	1.5	30	
Benzo(a)anthracene	0.125	0.000493	"	0.164	<0.000493	76.2	30-130	1.6	30	
Benzo(k)fluoranthene	0.133	0.000437	"	0.164	<0.000437	81	30-130	3.8	30	
Dibenz(a,h)anthracene	0.146	0.000614	"	0.164	<0.000614	89	30-130	4	30	
Fluoranthene	0.067	0.000394	"	0.164	<0.000394	40.8	30-130	0	30	
Fluorene	0.123	0.000286	"	0.164	0.0112	68.1	30-130	3.9	30	
Indeno(1,2,3-cd)pyrene	0.128	0.000627	"	0.164	<0.000627	78	30-130	7.5	30	
Naphthalene	0.121	0.000484	"	0.164	0.011	67	30-130	2.4	30	
Anthracene	0.121	0.000334	"	0.164	<0.000334	73.7	30-130	0.8	30	
Surrogate: 2-Fluorobiphenyl	65		"	0.329	212	65	33-115			
Surrogate: 4-Terphenyl-d14	75		"	0.329	229	75	33-122			
Surrogate: Nitrobenzene-d5	60.4		"	0.329	200	60.4	29-110			

**MS (L 83369-MS-L635406)**

**Source: 83369**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Pyrene	0.134	0.000643	mg/Kg	0.166	<0.000643	80.7	30-130			
Fluoranthene	0.067	0.000394	"	0.166	<0.000394	40.3	30-130			
1-Methylnaphthalene	0.169	0.000364	"	0.166	0.0435	75.6	30-130			
2-Methylnaphthalene	0.208	0.000645	"	0.166	0.0879	72.3	30-130			
Acenaphthene	0.113	0.000304	"	0.166	0.00739	63.6	30-130			
Anthracene	0.122	0.000334	"	0.166	<0.000334	73.4	30-130			
Benzo(a)anthracene	0.123	0.000493	"	0.166	<0.000493	74	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L635406 - 3550B**

**MS (L 83369-MS-L635406)**

**Source: 83369**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Benzo(a)pyrene	0.139	0.000468	mg/Kg	0.166	<0.000468	83.7	30-130			
Benzo(b)fluoranthene	0.14	0.000585	"	0.166	<0.000585	84.3	30-130			
Benzo(k)fluoranthene	0.128	0.000437	"	0.166	<0.000437	77.1	30-130			
Chrysene	0.13	0.000624	"	0.166	<0.000624	78.3	30-130			
Dibenz(a,h)anthracene	0.152	0.000614	"	0.166	<0.000614	91.5	30-130			
Naphthalene	0.124	0.000484	"	0.166	0.011	68	30-130			
Indeno(1,2,3-cd)pyrene	0.138	0.000627	"	0.166	<0.000627	83.1	30-130			
Fluorene	0.128	0.000286	"	0.166	0.0112	70.3	30-130			
Surrogate: Nitrobenzene-d5	64		"	0.331	200	64	29-110			
Surrogate: 2-Fluorobiphenyl	70.6		"	0.331	212	70.6	33-115			
Surrogate: 4-Terphenyl-d14	74.9		"	0.331	229	74.9	33-122			

**LCS (LCS-L635406)**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Anthracene	0.123	0.000334	mg/Kg	0.167		73.6	30-130			
2-Methylnaphthalene	0.106	0.000645	"	0.167		63.4	30-130			
Acenaphthene	0.108	0.000304	"	0.167		64.6	30-130			
Fluoranthene	0.124	0.000394	"	0.167		74.2	30-130			
Benzo(a)anthracene	0.122	0.000493	"	0.167		73	30-130			
Benzo(a)pyrene	0.137	0.000468	"	0.167		82	30-130			
Benzo(b)fluoranthene	0.133	0.000585	"	0.167		79.6	30-130			
Benzo(k)fluoranthene	0.129	0.000437	"	0.167		77.2	30-130			
1-Methylnaphthalene	0.106	0.000364	"	0.167		63.4	30-130			
Pyrene	0.124	0.000643	"	0.167		74.2	30-130			
Chrysene	0.125	0.000624	"	0.167		74.8	30-130			
Indeno(1,2,3-cd)pyrene	0.136	0.000627	"	0.167		81.4	30-130			
Naphthalene	0.103	0.000484	"	0.167		61.6	30-130			
Fluorene	0.115	0.000286	"	0.167		68.8	30-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-12

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L635406 - 3550B**

**LCS (LCS-L635406)**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Dibenz(a,h)anthracene	0.153	0.000614	mg/Kg	0.167		91.6	30-130			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			
Surrogate: 4-Terphenyl-d14	75		"	0.333		75	33-122			
Surrogate: Nitrobenzene-d5	66.9		"	0.333		66.9	29-110			

**LRB (LRB-L635406)**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	63.3		"	0.333		63.3	29-110			
Surrogate: 2-Fluorobiphenyl	60.3		"	0.333		60.3	33-115			
Surrogate: 4-Terphenyl-d14	66		"	0.333		66	33-122			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Baker State B #36-12

## Notes and Definitions

- U Sample is Non-Detect.
  - QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
  - 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 Estimated Value. Analyte below reported quantitation limit.
  - B Analyte is found in the associated blank as well as in the sample (CLP B-flag).
  - 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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