



July 01, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Guttersen  
T3N-R64W-S1 TB

Project Number - [none]

Attached are your analytical results for Noble - HSR - Guttersen T3N-R64W-S1 TB received by Origins Laboratory, Inc. June 21, 2022. This project is associated with Origins project number Y206516-01.

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





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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - HSR - Guttersen T3N-R64W-S1  
TB

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3	Y206516-01	Soil	May 31, 2022 11:01	06/21/2022 15:58

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



# ORIGINS LABORATORY, INC

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

Origins Work Order: Y200014 **Sample Receipt Checklist**  
Client: Eagle/Guttersen  
Client Project ID: T3N-R64W TB

Checklist Completed by: JB Shipped Via: HD  
Date/Time completed: 6-22-22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: na

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

Cooler Number/Temperature: 1 0.5 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
Do samples require cooling, was the temperature between 0°C to < 6°C <sup>(1)</sup> ?	<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 <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? If yes, contact client and note in narrative.			<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 HNO3, HCL, H2SO4) / pH >10 for samples preserved with NaAsO2+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 (Project Manager) MP Date/Time Reviewed 6/23/22

Origins Laboratory, Inc.

*Bynon*

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 TB

**Background-01@3'**  
**5/31/2022 11:01:00AM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206516-01 (Soil)**

**pH in Soil by 9045D**

pH	7.98		pH Units	1	B2F2313	ACC	06/23/2022	06/24/2022	
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**Table 915 metals by EPA 6020B**

Arsenic	1.27	0.00100	mg/kg	1	B2F2222	CW	06/22/2022	06/22/2022	
Barium	29.0	0.0100	"	"	"	CW	"	"	
Cadmium	0.0894	0.00100	"	"	"	CW	"	"	
Copper	2.78	0.0100	"	"	"	CW	"	"	
Lead	4.00	0.00100	"	"	"	CW	"	"	
Nickel	2.37	0.00100	"	"	"	CW	"	"	
Selenium	0.163	0.00100	"	"	"	CW	"	"	
Silver	0.0103	0.00100	"	"	"	CW	"	"	
Zinc	11.0	0.0100	"	"	"	CW	"	"	

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**Metals by SM 3500 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 B2F2222 - Default Prep Metals**

**Blank (B2F2222-BLK1)**

Prepared: 06/22/2022 Analyzed: 06/22/2022

Arsenic	ND	0.00100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.00100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.00100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.0100	"							U

**LCS (B2F2222-BS1)**

Prepared: 06/22/2022 Analyzed: 06/22/2022

Arsenic	0.0524	0.00100	mg/kg	0.0500		105	80-120			
Barium	5.14	0.0100	"	5.00		103	80-120			
Cadmium	0.0516	0.00100	"	0.0500		103	80-120			
Copper	0.515	0.0100	"	0.500		103	80-120			
Lead	0.0490	0.00100	"	0.0500		98.0	80-120			
Nickel	0.0533	0.00100	"	0.0500		107	80-120			
Selenium	0.0531	0.00100	"	0.0500		106	80-120			
Silver	0.0513	0.00100	"	0.0500		103	80-120			
Zinc	0.531	0.0100	"	0.500		106	80-120			

**Matrix Spike (B2F2222-MS1)**

Source: Y206509-01

Prepared: 06/22/2022 Analyzed: 06/22/2022

Arsenic	9.91	0.00100	mg/kg	5.74	4.90	87.2	75-125			
Barium	671	0.0100	"	574	94.0	100	75-125			
Cadmium	5.83	0.00100	"	5.74	0.124	99.3	75-125			
Copper	62.4	0.0100	"	57.4	8.94	93.1	75-125			
Lead	15.6	0.00100	"	5.74	11.2	77.0	75-125			

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**Metals by SM 3500 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 B2F2222 - Default Prep Metals**

**Matrix Spike (B2F2222-MS1)**

**Source: Y206509-01**

Prepared: 06/22/2022 Analyzed: 06/22/2022

Nickel	14.8	0.00100	mg/kg	5.74	9.67	88.5	75-125			
Selenium	10.0	0.00100	"	5.74	0.243	171	75-125			QM-07
Silver	5.64	0.00100	"	5.74	0.0376	97.5	75-125			
Zinc	73.5	0.0100	"	57.4	31.0	74.0	75-125			QM-07

**Matrix Spike Dup (B2F2222-MSD1)**

**Source: Y206509-01**

Prepared: 06/22/2022 Analyzed: 06/22/2022

Arsenic	11.5	0.00100	mg/kg	5.68	4.90	116	75-125	14.5	20	
Barium	661	0.0100	"	568	94.0	99.9	75-125	1.47	20	
Cadmium	5.77	0.00100	"	5.68	0.124	99.6	75-125	0.951	20	
Copper	65.0	0.0100	"	56.8	8.94	98.7	75-125	4.01	20	
Lead	18.2	0.00100	"	5.68	11.2	123	75-125	15.2	20	
Nickel	15.6	0.00100	"	5.68	9.67	105	75-125	5.80	20	
Selenium	10.3	0.00100	"	5.68	0.243	176	75-125	2.02	20	QM-07
Silver	5.65	0.00100	"	5.68	0.0376	98.9	75-125	0.223	20	
Zinc	80.0	0.0100	"	56.8	31.0	86.3	75-125	8.47	20	

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**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 B2F2313 - NO PREP

Duplicate (B2F2313-DUP1)

Source: Y206515-01

Prepared: 06/23/2022 Analyzed: 06/24/2022

pH	8.24	pH Units	8.27	0.363	25
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## Notes and Definitions

- U Sample is Non-Detect.
  - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
  - ND Analyte NOT DETECTED at or above the reporting limit
  - RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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