



June 27, 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 - -

Attached are your analytical results for Noble - HSR - Guttersen T3N-R64W-S1 TB received by Origins Laboratory, Inc. May 31, 2022. This project is associated with Origins project number Y206047-01.

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-01@4'	Y206047-01	Soil	May 31, 2022 9:47	05/31/2022 14:25
WV-FS-01@5'	Y206047-02	Soil	May 31, 2022 9:52	05/31/2022 14:25
TB-SS-01@0.5'	Y206047-03	Soil	May 31, 2022 10:22	05/31/2022 14:25
TB-SS-02@3'	Y206047-04	Soil	May 31, 2022 11:25	05/31/2022 14:25

Chain of Custody Replacement Request

On 5/31/2022, Andrew Newberry from Eagle Environmental contacted Jordan Bynon via email regarding Y206047 requesting that samples WV-SS-02, -03, and -04 not be analyzed and be disposed of.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/31/2022 and modified chain of custody is included in the final report.

Chain of Custody Modification Request

On 6/21/2022, Andrew Newberry from Eagle Environmental contacted Jordan Bynon via email regarding Y206047 requesting that Table 915 Metals be added to TB-SS-01@0.5' and TB-SS-02@3'.

Requested modifications to the chain of custody were made by Jordan Bynon on 6/21/2022.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon, Project Manager

ORIGINS LABORATORY, INC

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TB

ORIGINS LABORATORY, INC

1700047

www.originslab.com
page 1 of 1
Project Manager: [Signature]
Project Name: [Signature]
Project Number: [Signature]
Samples Collected By: [Signature]
Client: [Signature]
Address: [Signature]
Telephone Number: [Signature]
Email Address: [Signature]

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions	Date	Time	Date	Time	Round Time
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summ							
W-5-0105	05-11-2025	08:17	2	X			X									
W-5-0105	05-11-2025	08:52	1													
TB-5-0105	05-11-2025	08:52	1													
TB-5-0105	05-11-2025	08:52	1													

Relinquished By: [Signature]
Relinquished By: [Signature]
Received By: [Signature]
Received By: [Signature]
Date: 5/3/22
Date: 5/3/22
Time: 14:25
Time: 14:25
Round Time: Same Day 24 Hr 48 Hr Standard

Origins Laboratory, Inc.
[Signature]

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Jordan A. Bynon, Project Manager

ORIGINS

LABORATORY, INC

Eagle Environmental Consulting, Inc.
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Martin C Eckert III
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 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB


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

Origins Work Order: 4200047 Client: EAGLE
 Client Project ID: HSR-GUTTERSEN T3N-R64W-S1-TB
 Checklist Completed by: KH Shipped Via: TD
 Date/time completed: 6/27/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 10.2 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 1004

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 6/23/22

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

WV-SS-01@4'
5/31/2022 9:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F0216	06/02/2022	06/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0301	06/03/2022	06/07/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 71.3% 50-150 " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0224	06/02/2022	06/03/2022	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 105% 70-130 " "

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5/31/2022 9:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.1 %		70-130			B2F02 24	06/02/2022	06/03/2022	
Surrogate: 4-Bromofluorobenzene	98.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.43		0.499	meq/L	10	[CALC]	06/02/2022	06/03/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L619835	06/06/2022	06/06/2022	
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	"	"	"	"	"	

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WV-SS-01@4'
5/31/2022 9:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206047-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L619835	06/06/2022	06/06/2022	
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	57.4%		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.7%		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.1%		29-110			"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B2F0217	06/02/2022	06/03/2022	
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SAR by 20B Saturated Paste

SAR	0.0476			SAR	1	B2F0215	06/02/2022	06/03/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.224		0.00500	mmhos/cm	1	B2F0217	06/02/2022	06/03/2022	
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WV-FS-01@5'
5/31/2022 9:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F0216	06/02/2022	06/03/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	41.7		25.0	mg/kg	1	B2F0301	06/03/2022	06/07/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.0%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0224	06/02/2022	06/03/2022	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	108%		70-130	"	"	"	"	"	
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WV-FS-01@5'
 5/31/2022 9:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %		70-130			B2F02 24	06/02/2022	06/03/2022	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.25		0.499	meq/L	10	[CALC]	06/02/2022	06/03/2022	
Magnesium	1.52		0.823	"	"	"	"	"	
Sodium	2.34		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L619835	06/06/2022	06/06/2022	
2-Methylnaphthalene	0.00161	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	0.00114	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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WV-FS-01@5'
5/31/2022 9:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206047-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L619835	06/06/2022	06/06/2022	
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	56 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	66.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	72 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.12			pH Units	1	B2F0217	06/02/2022	06/03/2022	
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SAR by 20B Saturated Paste

SAR	1.37			SAR	1	B2F0215	06/02/2022	06/03/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.930		0.00500	mmhos/cm	1	B2F0217	06/02/2022	06/03/2022	
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Martin C Eckert III
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 TB

TB-SS-01@0.5'
5/31/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F0216	06/02/2022	06/03/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0301	06/03/2022	06/07/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 89.1% 50-150 " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0224	06/02/2022	06/03/2022	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 106% 70-130 " "

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TB-SS-01@0.5'
5/31/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %		70-130			B2F02 24	06/02/2022	06/03/2022	
Surrogate: 4-Bromofluorobenzene	94.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/02/2022	06/03/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.27		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.946	0.00364	0.0067	mg/Kg	10	L619835	06/06/2022	06/06/2022	
2-Methylnaphthalene	1.63	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	0.0871	0.00304	0.0067	"	"	"	"	"	
Anthracene	0.00723	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	0.0383	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"	
Fluorene	0.249	0.00286	0.0067	"	"	"	"	"	

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Martin C Eckert III
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 TB

TB-SS-01@0.5'
5/31/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206047-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	mg/Kg	10	L619835	06/06/2022	06/06/2022	
Naphthalene	0.303	0.00484	0.0067	"	"	"	"	"	"
Pyrene	0.022	0.00643	0.0067	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	65 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	75.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	69 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.69			pH Units	1	B2F0217	06/02/2022	06/03/2022	
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SAR by 20B Saturated Paste

SAR	2.01			SAR	1	B2F0215	06/02/2022	06/03/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.234		0.00500	mmhos/cm	1	B2F0217	06/02/2022	06/03/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.01		0.00100	mg/kg	1	B2F2123	06/21/2022	06/21/2022	
Barium	28.1		0.0100	"	"	"	"	"	"

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

TB-SS-01@0.5'
5/31/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0509		0.00100	mg/kg	1	B2F2123	06/21/2022	06/21/2022	
Copper	7.02		0.0100	"	"	"	"	"	
Lead	3.90		0.00100	"	"	"	"	"	
Nickel	6.08		0.00100	"	"	"	"	"	
Selenium	0.174		0.00100	"	"	"	"	"	
Silver	0.0106		0.00100	"	"	"	"	"	
Zinc	15.5		0.0100	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L622889	05/31/2022	06/22/2022	
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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: -
 Project: Noble - HSR - Gutteresen T3N-R64W-S1
 TB

TB-SS-02@3'
5/31/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F0216	06/02/2022	06/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F0301	06/03/2022	06/07/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	50.1%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0224	06/02/2022	06/03/2022	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	102%		70-130	"	"	"	"	"	
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Gutteresen T3N-R64W-S1
 TB

TB-SS-02@3'
5/31/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.3 %		70-130			B2F02 24	06/02/2022	06/03/2022	
Surrogate: 4-Bromofluorobenzene	96.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.08		0.499	meq/L	10	[CALC]	06/02/2022	06/03/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.915	0.00364	0.0067	mg/Kg	10	L619835	06/06/2022	06/06/2022	
2-Methylnaphthalene	1.6	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	0.0681	0.00304	0.0067	"	"	"	"	"	
Anthracene	0.00659	0.00334	0.0067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	0.0337	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"	
Fluorene	0.23	0.00286	0.0067	"	"	"	"	"	

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Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Gutteresen T3N-R64W-S1
 TB

TB-SS-02@3'
5/31/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206047-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	mg/Kg	10	L619835	06/06/2022	06/06/2022	
Naphthalene	0.284	0.00484	0.0067	"	"	"	"	"	
Pyrene	0.0194	0.00643	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	70.2 %		33-115				"	"	
Surrogate: 4-Terphenyl-d14	78.3 %		33-122				"	"	
Surrogate: Nitrobenzene-d5	74.1 %		29-110				"	"	

pH in Soil by 9045D

pH	8.16			pH Units	1	B2F0217	06/02/2022	06/03/2022	
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SAR by 20B Saturated Paste

SAR	0.0693			SAR	1	B2F0215	06/02/2022	06/03/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.281		0.00500	mmhos/cm	1	B2F0217	06/02/2022	06/03/2022	
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Table 915 metals by EPA 6020B

Arsenic	1.83		0.00100	mg/kg	1	B2F2123	06/21/2022	06/21/2022	
Barium	40.8		0.0100	"	"	"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB

TB-SS-02@3'
5/31/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206047-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.396		0.00100	mg/kg	1	B2F2123	06/21/2022	06/21/2022	
Copper	4.44		0.0100	"	"	"	"	"	
Lead	4.21		0.00100	"	"	"	"	"	
Nickel	3.98		0.00100	"	"	"	"	"	
Selenium	0.0697		0.00100	"	"	"	"	"	
Silver	0.0138		0.00100	"	"	"	"	"	
Zinc	16.9		0.0100	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L622889	05/31/2022	06/22/2022	
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Martin C Eckert III
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 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB

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 B2F0224 - EPA 5030 (soil)

Blank (B2F0224-BLK1)

Prepared: 06/02/2022 Analyzed: 06/03/2022

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	0.0100	"							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		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Gutteresen T3N-R64W-S1
 TB

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 B2F0224 - EPA 5030 (soil)

LCS (B2F0224-BS1)

Prepared: 06/02/2022 Analyzed: 06/03/2022

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	101	101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	101	101	70-130			
Benzene	0.103	0.00200	"	0.100	103	103	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	104	104	70-130			
Naphthalene	0.111	0.0100	"	0.100	111	111	70-130			
Toluene	0.101	0.00200	"	0.100	101	101	70-130			
o-Xylene	0.101	0.00200	"	0.100	101	101	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	106	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.7	99.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125	93.6	93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104	104	70-130			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB

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 B2F0224 - EPA 5030 (soil)

Matrix Spike (B2F0224-MS1)

Source: Y206024-01

Prepared: 06/02/2022 Analyzed: 06/03/2022

1,2,4-Trimethylbenzene	0.0965	0.00200	mg/kg	0.100	ND	96.5	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Benzene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
Naphthalene	0.0925	0.0100	"	0.100	0.00172	90.8	70-130			
Toluene	0.0935	0.00200	"	0.100	ND	93.5	70-130			
o-Xylene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB

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 B2F0224 - EPA 5030 (soil)

Matrix Spike Dup (B2F0224-MSD1)

Source: Y206024-01

Prepared: 06/02/2022 Analyzed: 06/03/2022

1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130	3.28	20	
1,3,5-Trimethylbenzene	0.0985	0.00200	"	0.100	ND	98.5	70-130	1.47	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	9.89	20	
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	5.37	20	
Naphthalene	0.0967	0.0100	"	0.100	0.00172	94.9	70-130	4.42	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	8.54	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	4.47	20	
m,p-Xylene	0.213	0.00400	"	0.200	ND	107	70-130	5.10	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB

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 B2F0301 - EPA 3550B

Blank (B2F0301-BLK1)

Prepared: 06/03/2022 Analyzed: 06/06/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		82.4	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Gutteresen T3N-R64W-S1
 TB

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 B2F0301 - EPA 3550B

LCS (B2F0301-BS1)

Prepared: 06/03/2022 Analyzed: 06/06/2022

Diesel (C10-C28)	881	50.0	mg/kg	1000		88.1	70-130			
Residual Range Organics (C28-C40)	892	200	"	1000		89.2	70-130			
Surrogate: o-Terphenyl	37		"	49.8		74.5	50-150			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB

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 B2F0301 - EPA 3550B

Matrix Spike (B2F0301-MS1)

Source: Y206002-01

Prepared: 06/03/2022 Analyzed: 06/06/2022

Diesel (C10-C28)	2230	50.0	mg/kg	1000	909	132	70-130			QM-07
Residual Range Organics (C28-C40)	1200	200	"	1000	225	97.4	70-130			
Surrogate: o-Terphenyl	36		"	49.8		71.5	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Gutteresen T3N-R64W-S1
 TB

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 B2F0301 - EPA 3550B

Matrix Spike Dup (B2F0301-MSD1)

Source: Y206002-01

Prepared: 06/03/2022 Analyzed: 06/06/2022

Diesel (C10-C28)	2520	50.0	mg/kg	1000	909	161	70-130	12.5	35	QM-07
Residual Range Organics (C28-C40)	1290	200	"	1000	225	107	70-130	7.59	35	
Surrogate: o-Terphenyl	38		"	49.8		75.4	50-150			

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

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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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 B2F2123 - Default Prep Metals

Blank (B2F2123-BLK1)

Prepared: 06/21/2022 Analyzed: 06/21/2022

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 (B2F2123-BS1)

Prepared: 06/21/2022 Analyzed: 06/21/2022

Arsenic	0.0498	0.00100	mg/kg	0.0500		99.7	80-120			
Barium	4.94	0.0100	"	5.00		98.9	80-120			
Cadmium	0.0504	0.00100	"	0.0500		101	80-120			
Copper	0.509	0.0100	"	0.500		102	80-120			
Lead	0.0503	0.00100	"	0.0500		101	80-120			
Nickel	0.0509	0.00100	"	0.0500		102	80-120			
Selenium	0.0474	0.00100	"	0.0500		94.8	80-120			
Silver	0.0512	0.00100	"	0.0500		102	80-120			
Zinc	0.512	0.0100	"	0.500		102	80-120			

Matrix Spike (B2F2123-MS1)

Source: Y206500-01

Prepared: 06/21/2022 Analyzed: 06/21/2022

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: -
 Project: Noble - HSR - Gutteresen T3N-R64W-S1
 TB

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 B2F2123 - Default Prep Metals

Matrix Spike (B2F2123-MS1)

Source: Y206500-01

Prepared: 06/21/2022 Analyzed: 06/21/2022

Arsenic	6.80	0.00100	mg/kg	4.60	1.73	110	75-125			
Barium	518	0.0100	"	460	40.1	104	75-125			
Cadmium	4.76	0.00100	"	4.60	0.0342	103	75-125			
Copper	48.2	0.0100	"	46.0	1.89	101	75-125			
Lead	9.68	0.00100	"	4.60	3.46	135	75-125			QM-07
Nickel	8.72	0.00100	"	4.60	2.32	139	75-125			QR-DUP
Selenium	4.15	0.00100	"	4.60	0.0280	89.6	75-125			
Silver	4.70	0.00100	"	4.60	0.00517	102	75-125			
Zinc	57.6	0.0100	"	46.0	8.96	106	75-125			

Matrix Spike Dup (B2F2123-MSD1)

Source: Y206500-01

Prepared: 06/21/2022 Analyzed: 06/21/2022

Arsenic	6.35	0.00100	mg/kg	5.11	1.73	90.6	75-125	6.78	20	
Barium	541	0.0100	"	511	40.1	98.0	75-125	4.28	20	
Cadmium	5.19	0.00100	"	5.11	0.0342	101	75-125	8.60	20	
Copper	54.2	0.0100	"	51.1	1.89	102	75-125	11.7	20	
Lead	7.88	0.00100	"	5.11	3.46	86.6	75-125	20.5	20	QM-07
Nickel	7.28	0.00100	"	5.11	2.32	97.2	75-125	18.0	20	
Selenium	4.84	0.00100	"	5.11	0.0280	94.1	75-125	15.3	20	
Silver	5.23	0.00100	"	5.11	0.00517	102	75-125	10.7	20	
Zinc	57.2	0.0100	"	51.1	8.96	94.3	75-125	0.782	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 B2F0217 - NO PREP

Blank (B2F0217-BLK1)

Prepared: 06/02/2022 Analyzed: 06/03/2022

pH 0.00 pH Units
 Specific Conductance (EC) 0.00710 0.00500 mmhos/cm

Duplicate (B2F0217-DUP1)

Source: Y206047-01

Prepared: 06/02/2022 Analyzed: 06/03/2022

pH 8.34 pH Units 8.33 0.120 25
 Specific Conductance (EC) 0.237 0.00500 mmhos/cm 0.224 5.90 25

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 TB

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 L622889 -

DUP (L 81192-DUP)

Source: 81192

Prepared: Analyzed: 06/22/2022

Chromium, Hexavalent ND 0.247 mg/Kg <0.508 - 0 20

MS (L 81192-MS)

Source: 81192

Prepared: Analyzed: 06/22/2022

Chromium, Hexavalent 6.37 0.25 mg/Kg 8.21 <0.250 78 75-125

MSD (L 81192-MSD)

Source: 81192

Prepared: Analyzed: 06/22/2022

Chromium, Hexavalent 431 24.8 mg/Kg 661 <24.8 65 75-125 *

LCS (LCS)

Prepared: Analyzed: 06/22/2022

Chromium, Hexavalent 6.98 0.244 mg/Kg 8 87 75-125

LRB (LRB)

Prepared: Analyzed: 06/22/2022

Chromium, Hexavalent ND 0.5 mg/Kg

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L619835 - 3550B

MSD (L 90166-MSD-L619835)

Source: 90166

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

Benzo(a)pyrene	0.109	0.000468	mg/Kg	0.166	<0.000468	65.6	30-130	5.6	30	
1-Methylnaphthalene	0.0931	0.000364	"	0.166	0.000511	55.7	30-130	11.5	30	
2-Methylnaphthalene	0.11	0.000645	"	0.166	0.00169	65.2	30-130	14.9	30	
Acenaphthene	0.0997	0.000304	"	0.166	<0.000304	60	30-130	11.3	30	
Benzo(a)anthracene	0.126	0.000493	"	0.166	<0.000493	75.9	30-130	10.8	30	
Pyrene	0.11	0.000643	"	0.166	<0.000643	66.2	30-130	9.7	30	
Benzo(b)fluoranthene	0.113	0.000585	"	0.166	<0.000585	68	30-130	2.6	30	
Benzo(k)fluoranthene	0.0954	0.000437	"	0.166	<0.000437	57.4	30-130	13.3	30	
Chrysene	0.108	0.000624	"	0.166	<0.000624	65	30-130	5.7	30	
Dibenz(a,h)anthracene	0.124	0.000614	"	0.166	<0.000614	74.6	30-130	2.4	30	
Fluoranthene	0.109	0.000394	"	0.166	<0.000394	65.6	30-130	8.7	30	
Fluorene	0.116	0.000286	"	0.166	<0.000286	69.8	30-130	9	30	
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.166	<0.000627	74.6	30-130	0	30	
Naphthalene	0.0908	0.000484	"	0.166	<0.000484	54.6	30-130	10.1	30	
Anthracene	0.102	0.000334	"	0.166	<0.000334	61.4	30-130	6.4	30	
Surrogate: 4-Terphenyl-d14	71.2		"	0.331	246	71.2	33-122			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.331	191	55.5	33-115			
Surrogate: Nitrobenzene-d5	71.2		"	0.331	241	71.2	29-110			

MS (L 90166-MS-L619835)

Source: 90166

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

Benzo(a)pyrene	0.103	0.000468	mg/Kg	0.166	<0.000468	62	30-130			
Benzo(b)fluoranthene	0.11	0.000585	"	0.166	<0.000585	66.2	30-130			
1-Methylnaphthalene	0.0829	0.000364	"	0.166	0.000511	49.6	30-130			
2-Methylnaphthalene	0.0947	0.000645	"	0.166	0.00169	56	30-130			
Acenaphthene	0.089	0.000304	"	0.166	<0.000304	53.6	30-130			
Anthracene	0.0956	0.000334	"	0.166	<0.000334	57.5	30-130			
Benzo(k)fluoranthene	0.0835	0.000437	"	0.166	<0.000437	50.3	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III
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 Project: Noble - HSR - Guttersen T3N-R64W-S1
 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L619835 - 3550B

MS (L 90166-MS-L619835)

Source: 90166

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

Benzo(a)anthracene	0.113	0.000493	mg/Kg	0.166	<0.000493	68	30-130			
Pyrene	0.0998	0.000643	"	0.166	<0.000643	60.1	30-130			
Chrysene	0.102	0.000624	"	0.166	<0.000624	61.4	30-130			
Dibenz(a,h)anthracene	0.121	0.000614	"	0.166	<0.000614	72.8	30-130			
Fluoranthene	0.0999	0.000394	"	0.166	<0.000394	60.1	30-130			
Fluorene	0.106	0.000286	"	0.166	<0.000286	63.8	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.166	<0.000627	74.6	30-130			
Naphthalene	0.082	0.000484	"	0.166	<0.000484	49.3	30-130			
Surrogate: 2-Fluorobiphenyl	47.2		"	0.332	191	47.2	33-115			
Surrogate: 4-Terphenyl-d14	64.1		"	0.332	246	64.1	33-122			
Surrogate: Nitrobenzene-d5	62.9		"	0.332	241	62.9	29-110			

LCS (LCS-L619835)

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

Benzo(a)anthracene	0.105	0.000493	mg/Kg	0.167		62.8	30-130			
Benzo(a)pyrene	0.106	0.000468	"	0.167		63.4	30-130			
Benzo(b)fluoranthene	0.0963	0.000585	"	0.167		57.6	30-130			
Naphthalene	0.0892	0.000484	"	0.167		53.4	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.000627	"	0.167		64.6	30-130			
Fluorene	0.101	0.000286	"	0.167		60.4	30-130			
Fluoranthene	0.119	0.000394	"	0.167		71.2	30-130			
Dibenz(a,h)anthracene	0.115	0.000614	"	0.167		68.8	30-130			
Benzo(k)fluoranthene	0.0938	0.000437	"	0.167		56.1	30-130			
Pyrene	0.119	0.000643	"	0.167		71.2	30-130			
Anthracene	0.114	0.000334	"	0.167		68.2	30-130			
Acenaphthene	0.105	0.000304	"	0.167		62.8	30-130			
2-Methylnaphthalene	0.089	0.000645	"	0.167		53.2	30-130			
1-Methylnaphthalene	0.0898	0.000364	"	0.167		53.7	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L619835 - 3550B

LCS (LCS-L619835)

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

Chrysene	0.0986	0.000624	mg/Kg	0.167	59	30-130				
Surrogate: Nitrobenzene-d5	63.3		"	0.333	63.3	29-110				
Surrogate: 4-Terphenyl-d14	78.3		"	0.333	78.3	33-122				
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333	59.4	33-115				

LRB (LRB-L619835)

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

Benzo(b)fluoranthene	ND	0.00067	mg/Kg			-				
Pyrene	ND	0.00067	"			-				
Chrysene	ND	0.00067	"			-				
Dibenz(a,h)anthracene	ND	0.00067	"			-				
Fluoranthene	ND	0.00067	"			-				
Fluorene	ND	0.00067	"			-				
Indeno(1,2,3-cd)pyrene	ND	0.00067	"			-				
1-Methylnaphthalene	ND	0.00067	"			-				
Benzo(k)fluoranthene	ND	0.00067	"			-				
Benzo(a)pyrene	ND	0.00067	"			-				
Benzo(a)anthracene	ND	0.00067	"			-				
Anthracene	ND	0.00067	"			-				
Acenaphthene	ND	0.00067	"			-				
2-Methylnaphthalene	ND	0.00067	"			-				
Naphthalene	ND	0.00067	"			-				
Surrogate: Nitrobenzene-d5	80.1		"	0.333	80.1	29-110				
Surrogate: 4-Terphenyl-d14	80.7		"	0.333	80.7	33-122				
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333	55.5	33-115				

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TB

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.
 - * QC Failure
 - 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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