



April 25, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Howard T6N-R64W-S27 Tank Battery **Project Number - [none]**

Attached are your analytical results for Noble - Howard T6N-R64W-S27 Tank Battery received by Origins Laboratory, Inc. April 11, 2022. This project is associated with Origins project number Y204196-01.

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 - Howard T6N-R64W-S27 Tank
Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-03@5'	Y204196-01	Soil	April 11, 2022 12:26	04/11/2022 14:41
WV-FS-01@6'	Y204196-02	Soil	April 11, 2022 12:30	04/11/2022 14:41
TB-SS-01@0.5'	Y204196-03	Soil	April 11, 2022 12:36	04/11/2022 14:41
TB-SS-02@3.5'	Y204196-04	Soil	April 11, 2022 12:48	04/11/2022 14:41

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 - Howard T6N-R64W-S27 Tank
 Battery

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


Sample Receipt Checklist

Origins Work Order: Y204196 Client: Eagle
 Client Project ID: Howard T6N-R64W-S27
 Checklist Completed by: SG Shipped Via: HD
 Date/time completed: 4/11/22 (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 5.0 °C °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 ⁽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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JS Date/Time Reviewed 4/12/22

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: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

WV-SS-03@5'
4/11/2022 12:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.453		0.0984	mg/L	1	B2D1211	04/12/2022	04/13/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D1201	04/12/2022	04/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.1 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D1233	04/12/2022	04/13/2022	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	0.00614		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	103 %		70-130	"	"	"	"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
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WV-SS-03@5'
4/11/2022 12:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	97.2 %		70-130			B2D12 33	04/12/2022	04/13/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	4.27		0.499	meq/L	10	[CALC]	04/12/2022	04/13/2022	
Magnesium	2.10		0.823	"	"	"	"	"	
Sodium	1.02		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000365	0.000364	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	J
2-Methylnaphthalene	0.000725	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	0.0011	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

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Martin C Eckert III
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WV-SS-03@5'
4/11/2022 12:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204196-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	0.000887	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	43.7 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	57.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	50.3 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.40			pH Units	1	B2D1219	04/12/2022	04/13/2022	
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SAR by 20B Saturated Paste

SAR	0.573			SAR	1	B2D1213	04/12/2022	04/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.777		0.00500	mmhos/cm	1	B2D1222	04/12/2022	04/13/2022	
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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 - Howard T6N-R64W-S27 Tank
 Battery

WV-FS-01@6'
4/11/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.398		0.0996	mg/L	1	B2D1211	04/12/2022	04/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D1201	04/12/2022	04/21/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	112%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D1233	04/12/2022	04/13/2022	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	109%		70-130	"	"	"	"	"	
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Martin C Eckert III
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 Project: Noble - Howard T6N-R64W-S27 Tank
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WV-FS-01@6'
4/11/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.6 %		70-130			B2D12 33	04/12/2022	04/13/2022	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.47		0.499	meq/L	10	[CALC]	04/12/2022	04/13/2022	
Magnesium	2.23		0.823	"	"	"	"	"	
Sodium	2.45		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	
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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Martin C Eckert III
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WV-FS-01@6'
4/11/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204196-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	
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	48.6 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	60.4 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	56.5 %		29-110			"	"	"	"

pH in Soil by 9045D


pH	7.69			pH Units	1	B2D1219	04/12/2022	04/13/2022	
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SAR by 20B Saturated Paste

SAR	1.80			SAR	1	B2D1213	04/12/2022	04/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.610		0.00500	mmhos/cm	1	B2D1222	04/12/2022	04/13/2022	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

TB-SS-01@0.5'
4/11/2022 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.281		0.100	mg/L	1	B2D1212	04/12/2022	04/13/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D1201	04/12/2022	04/21/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 109% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D1233	04/12/2022	04/22/2022	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 111% 70-130 " " "

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

TB-SS-01@0.5'
4/11/2022 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %		70-130			B2D12 33	04/12/2022	04/22/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.31		0.499	meq/L	10	[CALC]	04/12/2022	04/13/2022	
Magnesium	1.90		0.823	"	"	"	"	"	
Sodium	0.796		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	
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	0.000596	0.000585	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000693	0.000394	0.00067	"	"	"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

TB-SS-01@0.5'
4/11/2022 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204196-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	
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	45.5%		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	57.9%		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	52.7%		29-110			"	"	"	"

pH in Soil by 9045D


pH	7.55			pH Units	1	B2D1219	04/12/2022	04/13/2022	
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SAR by 20B Saturated Paste

SAR	0.419			SAR	1	B2D1213	04/12/2022	04/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.852		0.00500	mmhos/cm	1	B2D1222	04/12/2022	04/13/2022	
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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 - Howard T6N-R64W-S27 Tank
 Battery

TB-SS-02@3.5'
4/11/2022 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.600		0.100	mg/L	1	B2D1212	04/12/2022	04/13/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D1201	04/12/2022	04/21/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	113%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D1233	04/12/2022	04/13/2022	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	71.5%		70-130	"	"	"	"	"	
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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 - Howard T6N-R64W-S27 Tank
 Battery

TB-SS-02@3.5'
4/11/2022 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204196-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	68.1 %		70-130			B2D12 33	04/12/2022	04/13/2022	GC
Surrogate: 4-Bromofluorobenzene	65.5 %		70-130			"	"	"	S-GC

Metals by Saturated Paste by EPA 6010

Calcium	2.70		0.499	meq/L	10	[CALC]	04/12/2022	04/13/2022	
Magnesium	1.74		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.000406	0.000304	0.00067	"	"	"	"	"	J
Anthracene	0.00162	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00462	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00312	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0036	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.002	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0044	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0136	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000467	0.000286	0.00067	"	"	"	"	"	J

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 - Howard T6N-R64W-S27 Tank
 Battery

TB-SS-02@3.5'
4/11/2022 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204196-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00141	0.000627	0.00067	mg/Kg	1	L610437	04/13/2022	04/14/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	0.011	0.000643	0.00067	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	47.6 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	61.3 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	54 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	7.99			pH Units	1	B2D1219	04/12/2022	04/13/2022	
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SAR by 20B Saturated Paste

SAR	0.134			SAR	1	B2D1213	04/12/2022	04/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.503		0.00500	mmhos/cm	1	B2D1222	04/12/2022	04/13/2022	
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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 - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1201 - EPA 3550B

Prepared: 04/12/2022 Analyzed: 04/20/2022

Blank (B2D1201-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.0	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: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1201 - EPA 3550B

LCS (B2D1201-BS1)

Prepared: 04/12/2022 Analyzed: 04/20/2022

Diesel (C10-C28)	1060	50.0	mg/kg	1000	106	70-130				
Residual Range Organics (C28-C40)	1230	200	"	1000	123	70-130				
Surrogate: o-Terphenyl	53		"	49.8	106	50-150				

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1201 - EPA 3550B

Matrix Spike (B2D1201-MS1)

Source: Y204181-01

Prepared: 04/12/2022 Analyzed: 04/20/2022

Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Residual Range Organics (C28-C40)	1280	200	"	1000	ND	128	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1201 - EPA 3550B

Matrix Spike Dup (B2D1201-MSD1)

Source: Y204181-01

Prepared: 04/12/2022 Analyzed: 04/20/2022

Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	3.40	35	
Residual Range Organics (C28-C40)	1340	200	"	1000	ND	134	70-130	5.15	35	QM-07
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1233 - EPA 5030 (soil)

Blank (B2D1233-BLK1)

Prepared: 04/12/2022 Analyzed: 04/13/2022

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	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1233 - EPA 5030 (soil)

LCS (B2D1233-BS1)

Prepared: 04/12/2022 Analyzed: 04/13/2022

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.111	0.0100	"	0.100		111	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1233 - EPA 5030 (soil)

Matrix Spike (B2D1233-MS1)

Source: Y204181-01

Prepared: 04/12/2022 Analyzed: 04/13/2022

1,2,4-Trimethylbenzene	0.122	0.00200	mg/kg	0.100	ND	122	70-130			
1,3,5-Trimethylbenzene	0.125	0.00200	"	0.100	ND	125	70-130			
Benzene	0.108	0.00200	"	0.100	ND	108	70-130			
Ethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130			
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.120	0.00200	"	0.100	ND	120	70-130			
m,p-Xylene	0.247	0.00400	"	0.200	ND	124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 B2D1233 - EPA 5030 (soil)

Matrix Spike Dup (B2D1233-MSD1)

Source: Y204181-01

Prepared: 04/12/2022 Analyzed: 04/13/2022

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	14.6	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	15.9	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	6.93	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	14.7	20	
Naphthalene	0.0965	0.0100	"	0.100	ND	96.5	70-130	5.33	20	
Toluene	0.0996	0.00200	"	0.100	ND	99.6	70-130	9.80	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	14.6	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	14.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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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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 B2D1219 - NO PREP

Duplicate (B2D1219-DUP1)

Source: Y204194-05

Prepared: 04/12/2022 Analyzed: 04/13/2022

pH 8.09 pH Units 8.10 0.124 25

Batch B2D1222 - NO PREP

Blank (B2D1222-BLK1)

Prepared: 04/12/2022 Analyzed: 04/13/2022

Specific Conductance (EC) 0.00160 0.00500 mmhos/cm

Duplicate (B2D1222-DUP1)

Source: Y204194-05

Prepared: 04/12/2022 Analyzed: 04/13/2022

Specific Conductance (EC) 1.30 0.00500 mmhos/cm 1.18 9.93 25

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 L610437 - 3550B

MSD (L 86560-MSD-L610437)

Source: 86560

Prepared: 04/13/2022 Analyzed: 04/14/2022

Pyrene	0.102	0.000643	mg/Kg	0.164	<0.000643	62.1	30-130	6.4	30	
Fluoranthene	0.102	0.000394	"	0.164	<0.000394	62.1	30-130	5.6	30	
Fluorene	0.0982	0.000286	"	0.164	<0.000286	59.8	30-130	6.9	30	
Indeno(1,2,3-cd)pyrene	0.0941	0.000627	"	0.164	<0.000627	57.3	30-130	13.8	30	
Dibenz(a,h)anthracene	0.109	0.000614	"	0.164	<0.000614	66.4	30-130	16	30	
Benzo(a)pyrene	0.106	0.000468	"	0.164	<0.000468	64.6	30-130	8.2	30	
Naphthalene	0.0882	0.000484	"	0.164	<0.000484	53.7	30-130	7.2	30	
Anthracene	0.0992	0.000334	"	0.164	<0.000334	60.4	30-130	7.2	30	
1-Methylnaphthalene	0.0859	0.000364	"	0.164	<0.000364	52.3	30-130	4.8	30	
Benzo(b)fluoranthene	0.0861	0.000585	"	0.164	<0.000585	52.5	30-130	13.2	30	
Benzo(a)anthracene	0.106	0.000493	"	0.164	<0.000493	64.6	30-130	7.7	30	
2-Methylnaphthalene	0.0861	0.000645	"	0.164	<0.000645	52.5	30-130	4.7	30	
Acenaphthene	0.0902	0.000304	"	0.164	<0.000304	55	30-130	4	30	
Benzo(k)fluoranthene	0.0917	0.000437	"	0.164	<0.000437	55.9	30-130	7.5	30	
Chrysene	0.101	0.000624	"	0.164	<0.000624	61.5	30-130	8.7	30	

Surrogate: Nitrobenzene-d5

57.4

"

0.329

179

57.4

29-110

Surrogate: 2-Fluorobiphenyl

50.4

"

0.329

156

50.4

33-115

Surrogate: 4-Terphenyl-d14

68.3

"

0.329

201

68.3

33-122

MS (L 86560-MS-L610437)

Source: 86560

Prepared: 04/13/2022 Analyzed: 04/14/2022

Benzo(k)fluoranthene	0.085	0.000437	mg/Kg	0.164	<0.000437	51.8	30-130			
Benzo(b)fluoranthene	0.0754	0.000585	"	0.164	<0.000585	45.9	30-130			
Benzo(a)pyrene	0.0976	0.000468	"	0.164	<0.000468	59.5	30-130			
Benzo(a)anthracene	0.0981	0.000493	"	0.164	<0.000493	59.8	30-130			
Anthracene	0.0923	0.000334	"	0.164	<0.000334	56.2	30-130			
Chrysene	0.0925	0.000624	"	0.164	<0.000624	56.4	30-130			
Pyrene	0.0956	0.000643	"	0.164	<0.000643	58.2	30-130			

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 - Howard T6N-R64W-S27 Tank
 Battery

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 L610437 - 3550B

MS (L 86560-MS-L610437)

Source: 86560

Prepared: 04/13/2022 Analyzed: 04/14/2022

Acenaphthene	0.0866	0.000304	mg/Kg	0.164	<0.000304	52.8	30-130			
Dibenz(a,h)anthracene	0.0928	0.000614	"	0.164	<0.000614	56.5	30-130			
Fluoranthene	0.0964	0.000394	"	0.164	<0.000394	58.7	30-130			
Fluorene	0.0916	0.000286	"	0.164	<0.000286	55.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0819	0.000627	"	0.164	<0.000627	49.9	30-130			
1-Methylnaphthalene	0.0818	0.000364	"	0.164	<0.000364	49.8	30-130			
2-Methylnaphthalene	0.0821	0.000645	"	0.164	<0.000645	50	30-130			
Naphthalene	0.082	0.000484	"	0.164	<0.000484	50	30-130			
Surrogate: 4-Terphenyl-d14	63.7		"	0.328	201	63.7	33-122			
Surrogate: Nitrobenzene-d5	54.5		"	0.328	179	54.5	29-110			
Surrogate: 2-Fluorobiphenyl	48.7		"	0.328	156	48.7	33-115			

LCS (LCS-L610437)

Prepared: 04/13/2022 Analyzed: 04/14/2022

Naphthalene	0.0916	0.000484	mg/Kg	0.167		54.8	30-130			
Dibenz(a,h)anthracene	0.104	0.000614	"	0.167		62.2	30-130			
Fluorene	0.0994	0.000286	"	0.167		59.5	30-130			
1-Methylnaphthalene	0.0898	0.000364	"	0.167		53.7	30-130			
Fluoranthene	0.104	0.000394	"	0.167		62.2	30-130			
Pyrene	0.104	0.000643	"	0.167		62.2	30-130			
Chrysene	0.102	0.000624	"	0.167		61	30-130			
Benzo(k)fluoranthene	0.088	0.000437	"	0.167		52.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0914	0.000627	"	0.167		54.7	30-130			
2-Methylnaphthalene	0.0895	0.000645	"	0.167		53.5	30-130			
Benzo(b)fluoranthene	0.087	0.000585	"	0.167		52	30-130			
Acenaphthene	0.0919	0.000304	"	0.167		55	30-130			
Anthracene	0.101	0.000334	"	0.167		60.4	30-130			
Benzo(a)anthracene	0.108	0.000493	"	0.167		64.6	30-130			

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.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Howard T6N-R64W-S27 Tank
 Battery

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 L610437 - 3550B

LCS (LCS-L610437)

Prepared: 04/13/2022 Analyzed: 04/14/2022

Benzo(a)pyrene	0.106	0.000468	mg/Kg	0.167		63.4	30-130			
Surrogate: Nitrobenzene-d5	60.6		"	0.333		60.6	29-110			
Surrogate: 4-Terphenyl-d14	72.3		"	0.333		72.3	33-122			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333		56.1	33-115			

LRB (LRB-L610437)

Prepared: 04/13/2022 Analyzed: 04/14/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)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	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			
Surrogate: 2-Fluorobiphenyl	53.1		"	0.333		53.1	33-115			

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Howard T6N-R64W-S27 Tank
Battery

Notes and Definitions

- U Sample is Non-Detect.
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - 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.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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