



April 19, 2023

Colton LLC

Ryan Dornbos

475 17th ST STE 1200

Denver CO 80202

Project Name - Linnebur 42-1

Project Number - [none]

Attached are your analytical results for Linnebur 42-1 received by Origins Laboratory, Inc. April 06, 2023. This project is associated with Origins project number Y304145-01.

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

Colton LLC
475 17th ST STE 1200
Denver CO 80202

Ryan Dornbos
Project Number: [none]
Project: Linnebur 42-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
42-1 N WALL 17'	Y304145-01	Soil	April 6, 2023 16:00	04/06/2023 18:00
42-1 S WALL 17'	Y304145-02	Soil	April 6, 2023 16:00	04/06/2023 18:00
42-1 E WALL 17'	Y304145-03	Soil	April 6, 2023 16:00	04/06/2023 18:00
42-1 W WALL 17'	Y304145-04	Soil	April 6, 2023 16:00	04/06/2023 18:00
42-1 FLOOR 17'	Y304145-05	Soil	April 6, 2023 16:00	04/06/2023 18:00
42-1 BACKGROUND	Y304145-06	Soil	April 6, 2023 16:00	04/06/2023 18:00

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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


Sample Receipt Checklist

Origins Work Order: 430 4145 Client: Colton LLC
 Checklist Completed by: EAH/HJM Client Project ID: Linnebur 42-1
 Date/time completed: 4/7/23 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 115 °c / 1 °c / 1 °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⁾ ?		/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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 in the additional comments (above) and the case narrative.

 4-11-23
 Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 N WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B3D1115	04/11/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D1201	04/12/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 78.8 % 50-150 " " "

GBTEX+TMBs by 8260D

Benzene	ND		0.00200	mg/kg	1	B3D1135	04/11/2023	04/12/2023	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 116 % 70-130 " " "
 Surrogate: Toluene-d8 91.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.8 % 70-130 " " "

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 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 N WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	7.02		0.499	meq/L	10	[CALC]	04/11/2023	04/12/2023	
Magnesium	2.58		0.823	"	"	"	"	"	
Sodium	4.99		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675709	04/12/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

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 Denver CO 80202

Ryan Dombos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 N WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304145-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	43.5 %		33-115			L6757 09	04/12/2023	04/13/2023	
Surrogate: 4-Terphenyl-d14	54.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B3D1118	04/11/2023	04/12/2023	
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SAR by 20B Saturated Paste

SAR	2.28			SAR	1	B3D1110	04/11/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.32		0.00500	mmhos/cm	1	B3D1118	04/11/2023	04/12/2023	
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 Denver CO 80202

Ryan Dombos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 S WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.74		0.100	mg/L	1	B3D1115	04/11/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D1201	04/12/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

Benzene	ND		0.00200	mg/kg	1	B3D1135	04/11/2023	04/12/2023	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	118 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %		70-130			"	"	"	

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42-1 S WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	28.0		0.499	meq/L	10	[CALC]	04/11/2023	04/12/2023	
Magnesium	13.9		0.823	"	"	"	"	"	
Sodium	2.57		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675709	04/12/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

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Ryan Dombos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 S WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304145-02 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	45.1 %		33-115			L6757 09	04/12/2023	04/13/2023	
Surrogate: 4-Terphenyl-d14	53.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.75			pH Units	1	B3D1118	04/11/2023	04/12/2023	
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SAR by 20B Saturated Paste

SAR	0.562			SAR	1	B3D1110	04/11/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.13		0.00500	mmhos/cm	1	B3D1118	04/11/2023	04/12/2023	
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Ryan Dombos
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 Project: Linnebur 42-1

42-1 E WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.166		0.102	mg/L	1	B3D1115	04/11/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D1201	04/12/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

Benzene	ND		0.00200	mg/kg	1	B3D1135	04/11/2023	04/13/2023	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	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %		70-130			"	"	"	

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 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 E WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	8.71		0.499	meq/L	10	[CALC]	04/11/2023	04/12/2023	
Magnesium	3.33		0.823	"	"	"	"	"	
Sodium	7.23		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675709	04/12/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	
Fluorene	0.00039	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

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42-1 E WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304145-03 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	45.7 %		33-115			L6757 09	04/12/2023	04/13/2023	
Surrogate: 4-Terphenyl-d14	60.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.98			pH Units	1	B3D1118	04/11/2023	04/12/2023	
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SAR by 20B Saturated Paste

SAR	2.95			SAR	1	B3D1110	04/11/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.74		0.00500	mmhos/cm	1	B3D1118	04/11/2023	04/12/2023	
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 Project: Linnebur 42-1

42-1 W WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.631		0.0988	mg/L	1	B3D1115	04/11/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D1201	04/12/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

Benzene	ND		0.00200	mg/kg	1	B3D1135	04/11/2023	04/13/2023	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	116 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %		70-130			"	"	"	

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Colton LLC
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 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 W WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	25.5		0.499	meq/L	10	[CALC]	04/11/2023	04/12/2023	
Magnesium	8.01		0.823	"	"	"	"	"	
Sodium	8.92		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675709	04/12/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dombos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 W WALL 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304145-04 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	44.6 %		33-115			L6757 09	04/12/2023	04/13/2023	
Surrogate: 4-Terphenyl-d14	54.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.78			pH Units	1	B3D1118	04/11/2023	04/12/2023	
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SAR by 20B Saturated Paste

SAR	2.18			SAR	1	B3D1110	04/11/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.09		0.00500	mmhos/cm	1	B3D1118	04/11/2023	04/12/2023	
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Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dombos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 FLOOR 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3D1115	04/11/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	839		25.0	mg/kg	1	B3D1201	04/12/2023	04/13/2023	
Residual Range Organics (C28-C40)	691		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	90.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

Benzene	ND		0.00200	mg/kg	1	B3D1135	04/11/2023	04/13/2023	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00228		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.44		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dombos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 FLOOR 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.39		0.499	meq/L	10	[CALC]	04/11/2023	04/12/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.42		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0526	0.00549	0.0101	mg/Kg	5	L675709	04/12/2023	04/13/2023	
2-Methylnaphthalene	0.0639	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.00864	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.0257	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.058	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.0116	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.0925	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	0.0288	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.0332	0.00322	0.00335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	56.3 %		33-122			"	"	"	

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 FLOOR 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304145-05 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	57.5 %		29-110			L6757 09	04/12/2023	04/13/2023	
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pH in Soil by 9045D

pH	8.09			pH Units	1	B3D1118	04/11/2023	04/12/2023	
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SAR by 20B Saturated Paste

SAR	1.47			SAR	1	B3D1110	04/11/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.350		0.00500	mmhos/cm	1	B3D1118	04/11/2023	04/12/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.87		0.0900	mg/kg	10	B3D1216	04/12/2023	04/17/2023	
Barium	19.1		9.00	"	"	"	"	"	
Cadmium	ND		0.0900	"	"	"	"	"	
Copper	ND		9.00	"	"	"	"	"	
Lead	ND		9.00	"	"	"	"	"	
Nickel	ND		9.00	"	"	"	"	"	
Selenium	0.346		0.0900	"	"	"	"	"	
Silver	ND		0.0900	"	"	"	"	"	

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 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 FLOOR 17'
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-05 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND		90.0	mg/kg	10	B3D1216	04/12/2023	04/17/2023	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L675861	04/06/2023	04/13/2023	
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Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dombos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 BACKGROUND
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.40		0.100	mg/L	1	B3D1207	04/12/2023	04/13/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	3.27		0.499	meq/L	10	[CALC]	04/11/2023	04/12/2023	
Magnesium	0.864		0.823	"	"	"	"	"	
Sodium	0.457		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B3D1118	04/11/2023	04/12/2023	
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SAR by 20B Saturated Paste

SAR	0.318			SAR	1	B3D1110	04/11/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.540		0.00500	mmhos/cm	1	B3D1118	04/11/2023	04/12/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.51		0.0929	mg/kg	10	B3D1216	04/12/2023	04/17/2023	
Barium	111		9.29	"	"	"	"	"	
Cadmium	0.271		0.0929	"	"	"	"	"	
Copper	11.3		9.29	"	"	"	"	"	

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

42-1 BACKGROUND
4/6/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304145-06 (Soil)

Table 915 metals by EPA 6020B

Lead	12.3		9.29	mg/kg	10	B3D1216	04/12/2023	04/17/2023	
Nickel	12.5		9.29	"	"	"	"	"	
Selenium	0.361		0.0929	"	"	"	"	"	
Silver	ND		0.0929	"	"	"	"	"	
Zinc	ND		92.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	1	L675861	04/06/2023	04/13/2023	
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Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1135 - EPA 5030 (soil)

Blank (B3D1135-BLK1)

Prepared: 04/11/2023 Analyzed: 04/12/2023

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	0.13		"	0.125	100		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.7		70-130			

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1135 - EPA 5030 (soil)

LCS (B3D1135-BS1)

Prepared: 04/11/2023 Analyzed: 04/12/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.0987	0.00200	"	0.100		98.7	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1135 - EPA 5030 (soil)

Matrix Spike (B3D1135-MS1)	Source: Y304141-01			Prepared: 04/11/2023 Analyzed: 04/12/2023						
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.0894	0.00380	"	0.100	ND	89.4	70-130			
Toluene	0.0992	0.00200	"	0.100	ND	99.2	70-130			
o-Xylene	0.119	0.00200	"	0.100	ND	119	70-130			
m,p-Xylene	0.226	0.00400	"	0.200	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1135 - EPA 5030 (soil)

Matrix Spike Dup (B3D1135-MSD1)	Source: Y304141-01			Prepared: 04/11/2023 Analyzed: 04/12/2023						
1,2,4-Trimethylbenzene	0.0972	0.00200	mg/kg	0.100	ND	97.2	70-130	9.84	20	
1,3,5-Trimethylbenzene	0.0929	0.00200	"	0.100	ND	92.9	70-130	11.0	20	
Benzene	0.0982	0.00200	"	0.100	ND	98.2	70-130	4.64	20	
Ethylbenzene	0.0971	0.00200	"	0.100	ND	97.1	70-130	11.8	20	
Naphthalene	0.0934	0.00380	"	0.100	ND	93.4	70-130	4.40	20	
Toluene	0.0906	0.00200	"	0.100	ND	90.6	70-130	9.00	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	9.38	20	
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130	11.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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
Batch B3D1201 - EPA 3550B										
Blank (B3D1201-BLK1)										
					Prepared: 04/12/2023 Analyzed: 04/12/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		78.3	50-150			

Origins Laboratory, Inc.



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 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1201 - EPA 3550B

LCS (B3D1201-BS1)

Prepared: 04/12/2023 Analyzed: 04/12/2023

Diesel (C10-C28)	911	50.0	mg/kg	1000		91.1	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000		88.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.3	50-150			

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1201 - EPA 3550B

Matrix Spike (B3D1201-MS1)	Source: Y304129-01			Prepared: 04/12/2023 Analyzed: 04/12/2023						
Diesel (C10-C28)	820	50.0	mg/kg	1000	ND	82.0	70-130			
Residual Range Organics (C28-C40)	796	200	"	1000	ND	79.6	70-130			
<i>Surrogate: o-Terphenyl</i>	38		"	49.8		76.0	50-150			

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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
Batch B3D1201 - EPA 3550B										
Matrix Spike Dup (B3D1201-MSD1)					Source: Y304129-01					Prepared: 04/12/2023 Analyzed: 04/12/2023
Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	3.79	35	
Residual Range Organics (C28-C40)	828	200	"	1000	ND	82.8	70-130	3.96	35	
Surrogate: o-Terphenyl	39		"	49.8		78.5	50-150			

Origins Laboratory, Inc.



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Colton LLC
 475 17th ST STE 1200
 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D1216 - EPA 3050B

Blank (B3D1216-BLK1)

Prepared: 04/12/2023 Analyzed: 04/17/2023

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 (B3D1216-BS1)

Prepared: 04/12/2023 Analyzed: 04/17/2023

Arsenic	0.0531	0.000100	mg/kg	0.0500		106	80-120			
Barium	5.31	0.0100	"	5.00		106	80-120			
Cadmium	0.0516	0.000100	"	0.0500		103	80-120			
Copper	0.544	0.0100	"	0.500		109	80-120			
Lead	0.0502	0.0100	"	0.0500		100	80-120			
Nickel	0.0543	0.0100	"	0.0500		109	80-120			
Selenium	0.0498	0.000100	"	0.0500		99.5	80-120			
Silver	0.0460	0.000100	"	0.0500		91.9	80-120			
Zinc	0.525	0.100	"	0.500		105	80-120			

Matrix Spike (B3D1216-MS1)

Source: Y304145-05

Prepared: 04/12/2023 Analyzed: 04/17/2023

Origins Laboratory, Inc.



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 Project Number: [none]
 Project: Linnebur 42-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D1216 - EPA 3050B

Matrix Spike (B3D1216-MS1)		Source: Y304145-05			Prepared: 04/12/2023 Analyzed: 04/17/2023					
Arsenic	7.08	0.0948	mg/kg	4.74	1.87	110	75-125			
Barium	538	9.48	"	474	19.1	109	75-125			
Cadmium	5.00	0.0948	"	4.74	0.0153	105	75-125			
Copper	56.2	9.48	"	47.4	1.50	115	75-125			
Lead	8.50	9.48	"	4.74	3.38	108	75-125			
Nickel	6.68	9.48	"	4.74	1.27	114	75-125			
Selenium	4.75	0.0948	"	4.74	0.346	92.9	75-125			
Silver	4.53	0.0948	"	4.74	0.00720	95.3	75-125			
Zinc	59.5	94.8	"	47.4	ND	125	75-125			

Matrix Spike Dup (B3D1216-MSD1)		Source: Y304145-05			Prepared: 04/12/2023 Analyzed: 04/17/2023					
Arsenic	5.98	0.0884	mg/kg	4.42	1.87	93.0	75-125	16.8	20	
Barium	479	8.84	"	442	19.1	104	75-125	11.5	20	
Cadmium	4.47	0.0884	"	4.42	0.0153	101	75-125	11.2	20	
Copper	48.3	8.84	"	44.2	1.50	106	75-125	15.3	20	
Lead	7.49	8.84	"	4.42	3.38	93.2	75-125	12.6	20	
Nickel	5.88	8.84	"	4.42	1.27	104	75-125	12.7	20	
Selenium	4.52	0.0884	"	4.42	0.346	94.4	75-125	5.01	20	
Silver	3.98	0.0884	"	4.42	0.00720	89.8	75-125	13.0	20	
Zinc	51.7	88.4	"	44.2	ND	117	75-125	13.9	20	

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Colton LLC
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 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1110 - Saturated Paste Metals

Blank (B3D1110-BLK1)

Prepared: 04/11/2023 Analyzed: 04/12/2023

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

Duplicate (B3D1110-DUP1)

Source: Y304145-01

Prepared: 04/11/2023 Analyzed: 04/12/2023

SAR	0.00		SAR		2.28			200	200	
Calcium PPM	164	10.0	mg/L		141			15.5	50	
Magnesium PPM	36.3	10.0	"		31.3			14.8	50	
Sodium PPM	123	10.0	"		115			6.93	50	

Batch B3D1115 - DTPA Sorbitol Preparation

Blank (B3D1115-BLK1)

Prepared: 04/11/2023 Analyzed: 04/12/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3D1115-DUP1)

Source: Y304145-01

Prepared: 04/11/2023 Analyzed: 04/12/2023

Boron	0.103	0.0997	mg/L		0.0939			9.67	50	
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Batch B3D1207 - DTPA Sorbitol Preparation

Blank (B3D1207-BLK1)

Prepared: 04/12/2023 Analyzed: 04/13/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3D1207-DUP1)

Source: Y304145-06

Prepared: 04/12/2023 Analyzed: 04/13/2023

Boron	1.39	0.100	mg/L		1.40			1.12	50	
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Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 B3D1118 - Saturated Paste pH/EC

Blank (B3D1118-BLK1)

Prepared: 04/11/2023 Analyzed: 04/12/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3D1118-DUP1)

Source: Y304145-01

Prepared: 04/11/2023 Analyzed: 04/12/2023

Specific Conductance (EC)	1.50	0.00500	mmhos/cm	1.32			12.5	25	
pH	7.92		pH Units	7.97			0.629	25	

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Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 L675709 - 3550B

MSD (L 94602-MSD-L675709)		Source: 94602			Prepared: 04/12/2023 Analyzed: 04/13/2023					
Fluoranthene	0.15	0.00067	mg/Kg	0.164	0.0065	87.5	30-130	35.2	30	*
1-Methylnaphthalene	0.0984	0.00201	"	0.164	0.00314	58	30-130	9.6	30	
Benzo(k)fluoranthene	0.0891	0.00067	"	0.164	0.00115	53.6	30-130	17.5	30	
2-Methylnaphthalene	0.101	0.00201	"	0.164	0.00528	58.3	30-130	9.9	30	
Acenaphthene	0.0992	0.00067	"	0.164	0.00151	59.5	30-130	14.4	30	
Anthracene	0.102	0.00067	"	0.164	0.00063	61.8	30-130	15.9	30	
Benzo(a)anthracene	0.141	0.00067	"	0.164	0.00323	84	30-130	27.4	30	
Indeno(1,2,3-cd)pyrene	0.1	0.00067	"	0.164	0.00131	60.1	30-130	26.7	30	
Benzo(b)fluoranthene	0.0875	0.00067	"	0.164	0.00216	52	30-130	33.9	30	*
Pyrene	0.134	0.00067	"	0.164	0.00521	78.5	30-130	33.6	30	*
Chrysene	0.116	0.00067	"	0.164	0.0041	68.2	30-130	20.5	30	
Dibenz(a,h)anthracene	0.104	0.00067	"	0.164	<0.000614	63.4	30-130	32.5	30	*
Fluorene	0.105	0.00067	"	0.164	0.0022	62.6	30-130	14.6	30	
Naphthalene	0.0918	0.00201	"	0.164	<0.00145	55.9	30-130	9.4	30	
Benzo(a)pyrene	0.101	0.00067	"	0.164	<0.000468	61.5	30-130	8.1	30	
Surrogate: 2-Fluorobiphenyl	48.3		"	0.329	166	48.3	33-115			
Surrogate: 4-Terphenyl-d14	52.2		"	0.329	191	52.2	33-122			
Surrogate: Nitrobenzene-d5	51.9		"	0.329	177	51.9	29-110			

MS (L 94602-MS-L675709)		Source: 94602			Prepared: 04/12/2023 Analyzed: 04/13/2023					
2-Methylnaphthalene	0.0914	0.00201	mg/Kg	0.164	0.00528	52.5	30-130			
Benzo(k)fluoranthene	0.0747	0.00067	"	0.164	0.00115	44.8	30-130			
1-Methylnaphthalene	0.0893	0.00201	"	0.164	0.00314	52.5	30-130			
Anthracene	0.0869	0.00067	"	0.164	0.00063	52.6	30-130			
Benzo(a)anthracene	0.107	0.00067	"	0.164	0.00323	63.2	30-130			
Acenaphthene	0.0858	0.00067	"	0.164	0.00151	51.3	30-130			
Benzo(b)fluoranthene	0.0621	0.00067	"	0.164	0.00216	36.5	30-130			

Origins Laboratory, Inc.



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 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 L675709 - 3550B

MS (L 94602-MS-L675709)	Source: 94602			Prepared: 04/12/2023 Analyzed: 04/13/2023						
Pyrene	0.0954	0.00067	mg/Kg	0.164	0.00521	54.9	30-130			
Chrysene	0.0944	0.00067	"	0.164	0.0041	55	30-130			
Dibenz(a,h)anthracene	0.0749	0.00067	"	0.164	<0.000614	45.6	30-130			
Fluoranthene	0.105	0.00067	"	0.164	0.0065	60	30-130			
Fluorene	0.0907	0.00067	"	0.164	0.0022	53.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0764	0.00067	"	0.164	0.00131	45.7	30-130			
Naphthalene	0.0835	0.00201	"	0.164	<0.00145	50.9	30-130			
Benzo(a)pyrene	0.0931	0.00067	"	0.164	<0.000468	56.7	30-130			
Surrogate: 2-Fluorobiphenyl	41.3		"	0.329	166	41.3	33-115			
Surrogate: 4-Terphenyl-d14	44.6		"	0.329	191	44.6	33-122			
Surrogate: Nitrobenzene-d5	44.3		"	0.329	177	44.3	29-110			

LCS (LCS-L675709)				Prepared: 04/12/2023 Analyzed: 04/13/2023						
Benzo(b)fluoranthene	0.0961	0.00067	mg/Kg	0.167		57.5	30-130			
Anthracene	0.121	0.00067	"	0.167		72.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0728	0.00067	"	0.167		43.5	30-130			
Fluorene	0.12	0.00067	"	0.167		71.8	30-130			
Fluoranthene	0.132	0.00067	"	0.167		79	30-130			
Dibenz(a,h)anthracene	0.0846	0.00067	"	0.167		50.6	30-130			
Benzo(k)fluoranthene	0.104	0.00067	"	0.167		62.2	30-130			
Pyrene	0.127	0.00067	"	0.167		76	30-130			
Benzo(a)pyrene	0.127	0.00067	"	0.167		76	30-130			
Benzo(a)anthracene	0.129	0.00067	"	0.167		77.2	30-130			
Acenaphthene	0.115	0.00067	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.116	0.00201	"	0.167		69.4	30-130			
1-Methylnaphthalene	0.116	0.00201	"	0.167		69.4	30-130			
Chrysene	0.123	0.00067	"	0.167		73.6	30-130			

Origins Laboratory, Inc.



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 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

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 L675709 - 3550B

LCS (LCS-L675709)

Prepared: 04/12/2023 Analyzed: 04/13/2023

Naphthalene	0.114	0.00201	mg/Kg	0.167		68.2	30-130			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333		65.7	33-122			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			
Surrogate: 2-Fluorobiphenyl	57.9		"	0.333		57.9	33-115			

LRB (LRB-L675709)

Prepared: 04/12/2023 Analyzed: 04/13/2023

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
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	"				-			
Naphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	60.3		"	0.333		60.3	33-122			
Surrogate: Nitrobenzene-d5	54.9		"	0.333		54.9	29-110			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333		52.5	33-115			

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 Denver CO 80202

Ryan Dornbos
 Project Number: [none]
 Project: Linnebur 42-1

**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
Batch L675861 -										
DUP (L 94596-DUP)		Source: Y304145-05			Prepared: Analyzed: 04/13/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 94596-MS)		Source: Y304145-05			Prepared: Analyzed: 04/13/2023					
Chromium, Hexavalent	36.5	2.5	mg/Kg	40.1	<1.22	91	75-125			
LCS (LCS)		Prepared: Analyzed: 04/13/2023								
Chromium, Hexavalent	7.26	0.5	mg/Kg	8		91	75-125			
LRB (LRB)		Prepared: Analyzed: 04/13/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Denver CO 80202

Ryan Dornbos
Project Number: [none]
Project: Linnebur 42-1

Notes and Definitions

U Sample is Non-Detect.

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.

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

Origins Laboratory, Inc.



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