



April 20, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Spike State GWS CC #30-02

Project Number - [none]

Attached are your analytical results for Noble - Spike State GWS CC #30-02 received by Origins Laboratory, Inc. April 05, 2023. This project is associated with Origins project number Y304101-01.

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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WH-FS-01@6'	Y304101-01	Soil	April 5, 2023 10:54	04/05/2023 15:26
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pH rerun requested per Grace's email on 04/17/2023, all three results are reported. JAB

Origins Laboratory, Inc.

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Martin C Eckert III
 Project Number: [none]
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Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4304101 Client: Eagle Environ.
 Client Project ID: Spike St GWS CC #30-02


Checklist Completed by: JM/EHS Shipped Via: TLD
 Date/time completed: 4/10/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: na

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 174 °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: 7004

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 (> 1/4 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 in the additional comments (above) and the case narrative.

Reviewed By (Project Manager) JB Date/Time Reviewed 4-7-23

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

WH-FS-01@6'
 4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304101-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.121		0.0993	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D0602	04/06/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D1104	04/11/2023	04/11/2023	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	81.2 %		70-130	"	"	"	"	"	
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WH-FS-01@6'
 4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304101-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	89.7 %		70-130			B3D11 04	04/11/2023	04/11/2023	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.26		0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.791		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675319	04/11/2023	04/11/2023	
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	"	"	"	"	"	

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WH-FS-01@6'
4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304101-01 (Soil)

PAH by 8270D SIM

Fluorene	0.0003	0.000286	0.00067	mg/Kg	1	L675319	04/11/2023	04/11/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	46.4 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	53 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	49.1 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.45			pH Units	1	B3D0715	04/07/2023	04/08/2023	
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SAR by 20B Saturated Paste

SAR	0.676			SAR	1	B3D0711	04/07/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.436		0.00500	mmhos/cm	1	B3D0715	04/07/2023	04/08/2023	
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4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304101-01RE1 (Soil)

pH in Soil by 9045D

pH	8.10			pH Units	1	B3D1821	04/07/2023	04/19/2023	
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Jordan A. Bynon For Jen Pellegrini, Project Manager



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WH-FS-01@6'
4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304101-01RE2 (Soil)

pH in Soil by 9045D

pH	8.26			pH Units	1	B3D1821	04/07/2023	04/19/2023	
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D0602 - EPA 3580

Blank (B3D0602-BLK1)

Prepared: 04/06/2023 Analyzed: 04/12/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.2	50-150			

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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 B3D0602 - EPA 3580

LCS (B3D0602-BS1)

Prepared: 04/06/2023 Analyzed: 04/12/2023

Diesel (C10-C28)	967	50.0	mg/kg	1000		96.7	70-130			
Residual Range Organics (C28-C40)	942	200	"	1000		94.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.2	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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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 B3D0602 - EPA 3580

Matrix Spike (B3D0602-MS1)

Source: Y304100-01

Prepared: 04/06/2023 Analyzed: 04/12/2023

Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000	ND	95.3	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D0602 - EPA 3580

Matrix Spike Dup (B3D0602-MSD1)

Source: Y304100-01

Prepared: 04/06/2023 Analyzed: 04/12/2023

Diesel (C10-C28)	1210	50.0	mg/kg	1000	ND	121	70-130	22.4	35	
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130	22.7	35	
Surrogate: o-Terphenyl	66		"	49.8		132	50-150			

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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 B3D1104 - EPA 5030 (soil)

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

Blank (B3D1104-BLK1)

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	0.087		"	0.125		70.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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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 B3D1104 - EPA 5030 (soil)

LCS (B3D1104-BS1)

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

1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100		97.5	70-130			
1,3,5-Trimethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0914	0.00200	"	0.100		91.4	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.0855	0.00200	"	0.100		85.5	70-130			
o-Xylene	0.0901	0.00200	"	0.100		90.1	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.089		"	0.125		71.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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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 B3D1104 - EPA 5030 (soil)

Matrix Spike (B3D1104-MS1)

Source: Y304100-01

Prepared: 04/11/2023 Analyzed: 04/14/2023

1,2,4-Trimethylbenzene	0.0853	0.00200	mg/kg	0.100	ND	85.3	70-130			
1,3,5-Trimethylbenzene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
Benzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.0837	0.00200	"	0.100	ND	83.7	70-130			
Naphthalene	0.0963	0.00380	"	0.100	0.000820	95.4	70-130			
Toluene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
o-Xylene	0.0886	0.00200	"	0.100	0.000600	88.0	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D1104 - EPA 5030 (soil)

Matrix Spike Dup (B3D1104-MSD1)

Source: Y304100-01

Prepared: 04/11/2023 Analyzed: 04/14/2023

1,2,4-Trimethylbenzene	0.0844	0.00200	mg/kg	0.100	ND	84.4	70-130	1.06	20	
1,3,5-Trimethylbenzene	0.0782	0.00200	"	0.100	ND	78.2	70-130	2.28	20	
Benzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	1.38	20	
Ethylbenzene	0.0823	0.00200	"	0.100	ND	82.3	70-130	1.69	20	
Naphthalene	0.0947	0.00380	"	0.100	0.000820	93.9	70-130	1.59	20	
Toluene	0.0819	0.00200	"	0.100	ND	81.9	70-130	2.20	20	
o-Xylene	0.0874	0.00200	"	0.100	0.000600	86.8	70-130	1.43	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130	1.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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Martin C Eckert III
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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 B3D0709 - DTPA Sorbitol Preparation

Blank (B3D0709-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron ND 0.100 mg/L

Duplicate (B3D0709-DUP1)

Source: Y304101-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron 0.127 0.0991 mg/L 0.121 4.45 50

Batch B3D0711 - Saturated Paste Metals

Blank (B3D0711-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3D0711-DUP1)

Source: Y304100-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

Calcium PPM 51.6 10.0 mg/L 43.1 17.8 50

SAR 0.00 SAR 2.18 200 200

Magnesium PPM 21.6 10.0 mg/L 17.9 18.3 50

Sodium PPM 78.7 10.0 " 67.6 15.1 50

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D0715 - Saturated Paste pH/EC

Blank (B3D0715-BLK1)

Prepared: 04/07/2023 Analyzed: 04/08/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3D0715-DUP1)

Source: Y304100-01

Prepared: 04/07/2023 Analyzed: 04/08/2023

pH 7.77 pH Units 7.81 0.513 25

Specific Conductance (EC) 1.11 0.00500 mmhos/cm 0.922 18.3 25

Batch B3D1821 - Saturated Paste pH/EC

Duplicate (B3D1821-DUP1)

Source: Y303807-02

Prepared: 04/18/2023 Analyzed: 04/19/2023

pH 7.52 pH Units 7.54 0.266 25

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 L675319 - 3550B

MSD (L 94116-MSD-L675319)

Source: Y304101-01

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

Fluorene	0.122	0.00067	mg/Kg	0.162	0.0003	75.1	30-130	16.8	30	
1-Methylnaphthalene	0.114	0.00201	"	0.162	<0.00109	70.3	30-130	16.1	30	
Pyrene	0.124	0.00067	"	0.162	<0.000643	76.5	30-130	14.7	30	
Indeno(1,2,3-cd)pyrene	0.116	0.00067	"	0.162	<0.000627	71.6	30-130	26.2	30	
Fluoranthene	0.135	0.00067	"	0.162	<0.000394	83.3	30-130	16.8	30	
Dibenz(a,h)anthracene	0.114	0.00067	"	0.162	<0.000614	70.3	30-130	26.7	30	
Chrysene	0.124	0.00067	"	0.162	<0.000624	76.5	30-130	19.4	30	
Naphthalene	0.112	0.00201	"	0.162	<0.00145	69.1	30-130	17	30	
2-Methylnaphthalene	0.116	0.00201	"	0.162	<0.00194	71.6	30-130	16.3	30	
Benzo(k)fluoranthene	0.101	0.00067	"	0.162	<0.000437	62.3	30-130	13.9	30	
Acenaphthene	0.116	0.00067	"	0.162	<0.000304	71.6	30-130	16.3	30	
Anthracene	0.119	0.00067	"	0.162	<0.000334	73.4	30-130	18.6	30	
Benzo(a)anthracene	0.138	0.00067	"	0.162	<0.000493	85.1	30-130	14.7	30	
Benzo(a)pyrene	0.13	0.00067	"	0.162	<0.000468	80.2	30-130	20.3	30	
Benzo(b)fluoranthene	0.12	0.00067	"	0.162	<0.000585	74	30-130	33.1	30	*
Surrogate: 2-Fluorobiphenyl	57.5		"	0.325	154	57.5	33-115			
Surrogate: Nitrobenzene-d5	61.8		"	0.325	163	61.8	29-110			
Surrogate: 4-Terphenyl-d14	66.4		"	0.325	176	66.4	33-122			

MS (L 94116-MS-L675319)

Source: Y304101-01

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

Benzo(k)fluoranthene	0.0878	0.00067	mg/Kg	0.163	<0.000437	53.8	30-130			
Acenaphthene	0.0985	0.00067	"	0.163	<0.000304	60.4	30-130			
Naphthalene	0.0944	0.00201	"	0.163	<0.00145	57.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0891	0.00067	"	0.163	<0.000627	54.6	30-130			
Fluorene	0.103	0.00067	"	0.163	0.0003	63	30-130			
Fluoranthene	0.114	0.00067	"	0.163	<0.000394	69.9	30-130			
Dibenz(a,h)anthracene	0.0871	0.00067	"	0.163	<0.000614	53.4	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 L675319 - 3550B

MS (L 94116-MS-L675319)

Source: Y304101-01

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

Chrysene	0.102	0.00067	mg/Kg	0.163	<0.000624	62.5	30-130			
1-Methylnaphthalene	0.097	0.00201	"	0.163	<0.00109	59.5	30-130			
Benzo(a)pyrene	0.106	0.00067	"	0.163	<0.000468	65	30-130			
Anthracene	0.0987	0.00067	"	0.163	<0.000334	60.5	30-130			
Pyrene	0.107	0.00067	"	0.163	<0.000643	65.6	30-130			
2-Methylnaphthalene	0.0985	0.00201	"	0.163	<0.00194	60.4	30-130			
Benzo(b)fluoranthene	0.0859	0.00067	"	0.163	<0.000585	52.6	30-130			
Benzo(a)anthracene	0.119	0.00067	"	0.163	<0.000493	73	30-130			
Surrogate: Nitrobenzene-d5	51		"	0.327	163	51	29-110			
Surrogate: 4-Terphenyl-d14	53.8		"	0.327	176	53.8	33-122			
Surrogate: 2-Fluorobiphenyl	47.7		"	0.327	154	47.7	33-115			

LCS (LCS-L675319)

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

Chrysene	0.108	0.00067	mg/Kg	0.167		64.6	30-130			
Dibenz(a,h)anthracene	0.0882	0.00067	"	0.167		52.8	30-130			
Fluoranthene	0.117	0.00067	"	0.167		70	30-130			
Fluorene	0.103	0.00067	"	0.167		61.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0895	0.00067	"	0.167		53.5	30-130			
Naphthalene	0.0931	0.00201	"	0.167		55.7	30-130			
Pyrene	0.111	0.00067	"	0.167		66.4	30-130			
Benzo(k)fluoranthene	0.101	0.00067	"	0.167		60.4	30-130			
Benzo(a)pyrene	0.111	0.00067	"	0.167		66.4	30-130			
Benzo(a)anthracene	0.118	0.00067	"	0.167		70.6	30-130			
Anthracene	0.102	0.00067	"	0.167		61	30-130			
Acenaphthene	0.0963	0.00067	"	0.167		57.6	30-130			
2-Methylnaphthalene	0.0968	0.00201	"	0.167		57.9	30-130			
1-Methylnaphthalene	0.0946	0.00201	"	0.167		56.6	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 L675319 - 3550B

LCS (LCS-L675319)

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

Benzo(b)fluoranthene	0.112	0.00067	mg/Kg	0.167	67	30-130				
Surrogate: Nitrobenzene-d5	53.4		"	0.333	53.4	29-110				
Surrogate: 4-Terphenyl-d14	60.3		"	0.333	60.3	33-122				
Surrogate: 2-Fluorobiphenyl	49.2		"	0.333	49.2	33-115				

LRB (LRB-L675319)

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

Chrysene	ND	0.00067	mg/Kg							
Dibenz(a,h)anthracene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
Fluorene	ND	0.00067	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Naphthalene	ND	0.00201	"							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Benzo(b)fluoranthene	ND	0.00067	"							
Benzo(a)pyrene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00201	"							
1-Methylnaphthalene	ND	0.00201	"							
Pyrene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Surrogate: Nitrobenzene-d5	53.7		"	0.333	53.7	29-110				
Surrogate: 4-Terphenyl-d14	56.1		"	0.333	56.1	33-122				
Surrogate: 2-Fluorobiphenyl	49.8		"	0.333	49.8	33-115				

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

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.

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