

June 08, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Dupper 27-3

Project Number - [none]

Attached are your analytical results for Dupper 27-3 received by Origins Laboratory, Inc. June 07, 2017. This project is associated with Origins project number Y706090-01.

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



Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@2.0'	Y706090-01	Soil	June 7, 2017 8:45	06/07/2017 15:21
GW-01	Y706090-02	Water	June 7, 2017 12:40	06/07/2017 15:21
GW-02	Y706090-03	Water	June 7, 2017 12:45	06/07/2017 15:21

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

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page 2 of 2

ORIGINS
 LABORATORY, INC

170090

Client: Eagle Environmental Consulting Inc
 Address: 4101 Inca St
 Telephone Number: Denver CO 80211
 Email Address: MCE3@eagle-enviro.com

Project Manager: Martin Eckert III
 Project Name: Dupper 27-3
 Project Number: _____
 Samples Collected By: J. Seaburger

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	At Summa #			Other
SS-02 @ 2.0'	6/7/17	0830	2	X				X				X GSTEX X FPH-DRO	1
SS-03 @ 2.0'		0855	1										2
SS-04 @ 2.0'		0900	1										3
SS-18 @ 2.0'		1030	1										4
SS-19 @ 2.0'		1100	1										5
SS-20 @ 2.0'		1145	1										6
SS-22 @ 2.0'		1150	1										7
													8
													9
													10
Relinquished By: _____	Date: 6/7/17	Time: 154	Time: 154	Received By: _____	Date: 6-7-17	Time: 152	Time: 152	Received By: _____	Date: 6-7-17	Time: 152	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard		

Temp Received: 4, 0, 2 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7/16/10

Client: Eagle Env

Client Project ID: Dupper 27-3

Checklist Completed by: D. La

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-7-17 1546

Airbill #: NP

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 4.3 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>pH, SAR</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽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"/>		
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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6-7-17 1547

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

SS-01@2.0'
6/7/2017 8:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706090-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7F0705	06/07/2017	06/07/2017	U
<i>Surrogate: o-Terphenyl</i>	60.6 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	141	5.00	mg/kg	25	B7F0701	06/07/2017	06/07/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.244	0.050	"	"	"	"	"	
Xylenes, total	1.70	0.050	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.0 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	109 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.57		pH Units	1	B7F0707	06/07/2017	06/07/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0952		mmhos/cm	"	B7F0708	06/07/2017	06/07/2017	
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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

GW-01
6/7/2017 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706090-02 (Water)

BTEX by EPA 8260C

Benzene	221	4.00	ug/L	4	B7F0702	06/07/2017	06/07/2017	
Toluene	5.36	4.00	"	"	"	"	"	
Ethylbenzene	188	4.00	"	"	"	"	"	
Xylenes, total	4980	50.0	"	50	"	"	06/07/2017	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	06/07/2017	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114			"	"	"	

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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

GW-02
6/7/2017 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706090-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B7F0702	06/07/2017	06/07/2017	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	06/07/2017	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %	84-121			"	"	06/07/2017	
<i>Surrogate: Toluene-d8</i>	99.6 %	85-115			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	97.0 %	84-114			"	"	"	

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 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

Blank (B7F0701-BLK1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

Blank (B7F0701-BLK2)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

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 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

LCS (B7F0701-BS1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.098	0.002	"	0.100		97.7	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.202	0.004	"	0.200		101	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

LCS (B7F0701-BS2)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.097	0.002	"	0.100		96.7	74.5-128			
Ethylbenzene	0.094	0.002	"	0.100		94.0	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.9	76.6-124			
o-Xylene	0.096	0.002	"	0.100		95.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

Matrix Spike (B7F0701-MS1)	Source: Y706023-01			Prepared: 06/07/2017 Analyzed: 06/07/2017						
Benzene	0.083	0.002	mg/kg	0.100	ND	83.3	71.8-126			
Toluene	0.078	0.002	"	0.100	ND	78.5	65.1-130			
Ethylbenzene	0.075	0.002	"	0.100	ND	75.3	62.2-130			
m,p-Xylene	0.151	0.004	"	0.200	ND	75.4	46.5-137			
o-Xylene	0.076	0.002	"	0.100	ND	76.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

Matrix Spike (B7F0701-MS2)	Source: Y706086-01			Prepared: 06/07/2017 Analyzed: 06/07/2017						
Benzene	0.095	0.002	mg/kg	0.100	ND	95.3	71.8-126			
Toluene	0.092	0.002	"	0.100	ND	91.7	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.4	62.2-130			
m,p-Xylene	0.165	0.004	"	0.200	ND	82.3	46.5-137			
o-Xylene	0.091	0.002	"	0.100	ND	91.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

Matrix Spike Dup (B7F0701-MSD1)	Source: Y706023-01			Prepared: 06/07/2017 Analyzed: 06/07/2017						
Benzene	0.086	0.002	mg/kg	0.100	ND	85.9	71.8-126	3.07	11.3	
Toluene	0.083	0.002	"	0.100	ND	82.8	65.1-130	5.36	15.4	
Ethylbenzene	0.079	0.002	"	0.100	ND	79.3	62.2-130	5.25	19.6	
m,p-Xylene	0.156	0.004	"	0.200	ND	78.2	46.5-137	3.70	19.2	
o-Xylene	0.080	0.002	"	0.100	ND	80.2	54.2-134	5.12	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0701 - EPA 5030 (soil)

Matrix Spike Dup (B7F0701-MSD2)	Source: Y706086-01			Prepared: 06/07/2017 Analyzed: 06/07/2017						
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126	5.29	11.3	
Toluene	0.096	0.002	"	0.100	ND	95.7	65.1-130	4.23	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.4	62.2-130	3.29	19.6	
m,p-Xylene	0.133	0.004	"	0.200	ND	66.6	46.5-137	21.1	19.2	QR-02
o-Xylene	0.097	0.002	"	0.100	ND	97.4	54.2-134	6.64	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0702 - EPA 5030B (Water)

Blank (B7F0702-BLK1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	98.4		84-121			
Surrogate: Toluene-d8	64		"	62.5	102		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.3		84-114			

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Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0702 - EPA 5030B (Water)

LCS (B7F0702-BS1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Benzene	45.4	1.00	ug/L	50.0		90.9	73.3-129			
Toluene	45.7	1.00	"	50.0		91.4	76.2-123			
Ethylbenzene	41.4	1.00	"	50.0		82.7	73.6-130			
m,p-Xylene	90.9	2.00	"	100		90.9	76.1-126			
o-Xylene	43.0	1.00	"	50.0		86.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0702 - EPA 5030B (Water)

Matrix Spike (B7F0702-MS1)	Source: Y706059-03			Prepared: 06/07/2017 Analyzed: 06/07/2017						
Benzene	40.0	1.00	ug/L	50.0	0.540	79.0	74-130			
Toluene	39.0	1.00	"	50.0	ND	78.1	73-131			
Ethylbenzene	35.9	1.00	"	50.0	ND	71.8	76-132			QM-07
m,p-Xylene	78.8	2.00	"	100	ND	78.8	69-139			
o-Xylene	37.9	1.00	"	50.0	ND	75.7	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	84-121			
Surrogate: Toluene-d8	62		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7F0702 - EPA 5030B (Water)

Matrix Spike Dup (B7F0702-MSD1)	Source: Y706059-03			Prepared: 06/07/2017 Analyzed: 06/07/2017						
Benzene	48.9	1.00	ug/L	50.0	0.540	96.6	74-130	19.9	20	
Toluene	50.2	1.00	"	50.0	ND	100	73-131	25.0	20	QR-02
Ethylbenzene	45.8	1.00	"	50.0	ND	91.5	76-132	24.1	20	QR-03
m,p-Xylene	100	2.00	"	100	ND	100	69-139	23.7	20	QR-02
o-Xylene	47.1	1.00	"	50.0	ND	94.3	74-131	21.8	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	84-114			

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 Project: Dupper 27-3

Volatile Organic Compounds by GC/MS SW846 8260C - 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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Extractable Petroleum Hydrocarbons by 8015C - 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 B7F0705 - EPA 3550B

Blank (B7F0705-BLK1)					Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		91.7	59-131			
Blank (B7F0705-BLK2)					Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	38		"	50.0		76.1	59-131			
LCS (B7F0705-BS1)					Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	64-121			
Surrogate: o-Terphenyl	45		"	50.0		90.6	59-131			
LCS (B7F0705-BS2)					Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	829	50.0	mg/kg	1000		82.9	64-121			
Surrogate: o-Terphenyl	39		"	50.0		77.5	59-131			
Matrix Spike (B7F0705-MS1)		Source: Y706086-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	800	50.0	mg/kg	1000	ND	80.0	53-125			
Surrogate: o-Terphenyl	39		"	50.0		77.1	59-131			
Matrix Spike (B7F0705-MS2)		Source: Y706090-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	883	50.0	mg/kg	1000	47.2	83.6	53-125			
Surrogate: o-Terphenyl	37		"	50.0		74.7	59-131			

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 Project: Dupper 27-3

Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7F0705 - EPA 3550B										
Matrix Spike Dup (B7F0705-MSD1)		Source: Y706086-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	961	50.0	mg/kg	1000	ND	96.1	53-125	18.2	20	
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			
Matrix Spike Dup (B7F0705-MSD2)		Source: Y706090-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	822	50.0	mg/kg	1000	47.2	77.5	53-125	7.14	20	
Surrogate: o-Terphenyl	37		"	50.0		74.8	59-131			

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Martin C Eckert III
 Project Number: [none]
 Project: Dupper 27-3

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7F0707 - NO PREP										
Duplicate (B7F0707-DUP1)		Source: Y706090-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
pH	8.31		pH Units		8.57			3.08	25	
Batch B7F0708 - NO PREP										
Blank (B7F0708-BLK1)		Prepared: 06/07/2017 Analyzed: 06/07/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Duplicate (B7F0708-DUP1)		Source: Y706090-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Specific Conductance (EC)	0.0833		mmhos/cm		0.0952			13.3	25	

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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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