



June 10, 2019

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - CPR - Vessels Minerals 19-15  
Battery**

**Project Number - [none]**

Attached are your analytical results for CPR - Vessels Minerals 19-15 Battery received by Origins Laboratory, Inc. June 03, 2019. This project is associated with Origins project number Y906050-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Dan Coloccia  
Project Number: [none]  
Project: CPR - Vessels Minerals 19-15 Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@0-2.5'	Y906050-01	Soil	June 3, 2019 11:35	06/03/2019 16:05

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



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

Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Vessels Minerals 19-15 Battery

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y906050

Client: Eagle

Client Project ID: Vessels Minerals

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6 / 4 / 2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 4.3 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> 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 6/5/19

Origins Laboratory, Inc.

[Signature]

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 Denver CO 80211

Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Vessels Minerals 19-15 Battery

**SB01@0-2.5'**  
**6/3/2019 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906050-01 (Soil)**

**BTEX by EPA 8260D**

Benzene	ND	0.050	mg/kg	25	B9F0403	JTD	06/04/2019	06/05/2019	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"	"	

**Metals (Saturated Paste Prep)**

Calcium	<b>4.30</b>		me/L	1	'[none]'		06/05/2019	06/07/2019	
Magnesium	<b>2.59</b>		"	"	"		"	"	
Sodium	<b>3.98</b>		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	<b>7.46</b>		pH Units	1	B9F0408	OLAB	06/04/2019	06/04/2019	
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**SAR by 20B Saturated Paste**

SAR	<b>2.14</b>			1	'[none]'		06/05/2019	06/07/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.187</b>	0.00500	mmhos/cm	1	B9F0409	OLAB	06/04/2019	06/04/2019	
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**SB01@0-2.5'**

**6/3/2019 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906050-01 (Soil)**

**TPH-Carbon Chain by EPA 8015D**

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9F0407	JTD	06/04/2019	06/05/2019	U
Diesel (C10-C28)	<b>422</b>	50.0	"	"	"	JTD	"	"	
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	89.2 %	50-150			"	"	"	"	
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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 B9F0403 - EPA 5030 (soil)**

**Blank (B9F0403-BLK1)**

Prepared: 06/04/2019 Analyzed: 06/04/2019

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.12		"	0.125		99.8	70-130			
<i>Surrogate: Toluene-d8</i>	0.12		"	0.125		96.2	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.12		"	0.125		98.5	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9F0403 - EPA 5030 (soil)**

**Blank (B9F0403-BLK2)**

Prepared: 06/04/2019 Analyzed: 06/05/2019

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>94.7</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.8</i>	<i>70-130</i>			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9F0403 - EPA 5030 (soil)**

**LCS (B9F0403-BS1)**

Prepared: 06/04/2019 Analyzed: 06/04/2019

Benzene	0.107	0.002	mg/kg	0.100		107	70-130			
Toluene	0.100	0.002	"	0.100		100	70-130			
Ethylbenzene	0.098	0.002	"	0.100		97.8	70-130			
m,p-Xylene	0.202	0.004	"	0.200		101	70-130			
o-Xylene	0.104	0.002	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	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 B9F0403 - EPA 5030 (soil)**

**LCS (B9F0403-BS2)**

Prepared: 06/04/2019 Analyzed: 06/05/2019

Benzene	0.097	0.002	mg/kg	0.100		97.1	70-130			
Toluene	0.089	0.002	"	0.100		89.0	70-130			
Ethylbenzene	0.095	0.002	"	0.100		95.2	70-130			
m,p-Xylene	0.193	0.004	"	0.200		96.4	70-130			
o-Xylene	0.100	0.002	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 B9F0403 - EPA 5030 (soil)

Matrix Spike (B9F0403-MS1)	Source: Y906049-01			Prepared: 06/04/2019 Analyzed: 06/04/2019						
Benzene	0.087	0.002	mg/kg	0.100	ND	87.1	70-130			
Toluene	0.079	0.002	"	0.100	ND	79.1	70-130			
Ethylbenzene	0.084	0.002	"	0.100	ND	84.2	70-130			
m,p-Xylene	0.172	0.004	"	0.200	ND	86.2	70-130			
o-Xylene	0.090	0.002	"	0.100	0.0004	90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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 Project: CPR - Vessels Minerals 19-15 Battery

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F0403 - EPA 5030 (soil)

Matrix Spike (B9F0403-MS2)	Source: Y906051-01			Prepared: 06/04/2019 Analyzed: 06/05/2019						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.4	70-130			
Toluene	0.090	0.002	"	0.100	ND	89.6	70-130			
Ethylbenzene	0.096	0.002	"	0.100	ND	96.4	70-130			
m,p-Xylene	0.211	0.004	"	0.200	0.013	99.3	70-130			
o-Xylene	0.102	0.002	"	0.100	0.0004	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	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 B9F0403 - EPA 5030 (soil)

Matrix Spike Dup (B9F0403-MSD1)	Source: Y906049-01			Prepared: 06/04/2019 Analyzed: 06/04/2019						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.7	70-130	11.4	20	
Toluene	0.089	0.002	"	0.100	ND	89.5	70-130	12.4	20	
Ethylbenzene	0.094	0.002	"	0.100	ND	94.3	70-130	11.3	20	
m,p-Xylene	0.192	0.004	"	0.200	ND	95.8	70-130	10.6	20	
o-Xylene	0.101	0.002	"	0.100	0.0004	101	70-130	11.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 B9F0403 - EPA 5030 (soil)

Matrix Spike Dup (B9F0403-MSD2)	Source: Y906051-01			Prepared: 06/04/2019 Analyzed: 06/05/2019						
Benzene	0.084	0.002	mg/kg	0.100	ND	84.5	70-130	16.2	20	
Toluene	0.075	0.002	"	0.100	ND	74.8	70-130	17.9	20	
Ethylbenzene	0.078	0.002	"	0.100	ND	78.5	70-130	20.5	20	QR-02
m,p-Xylene	0.169	0.004	"	0.200	0.013	78.4	70-130	21.9	20	QR-02
o-Xylene	0.083	0.002	"	0.100	0.0004	82.8	70-130	20.6	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	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
<b>Batch B9F0407 - EPA 3580</b>										
<b>Blank (B9F0407-BLK1)</b>					Prepared: 06/04/2019 Analyzed: 06/04/2019					
Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46.3		"	50.0		92.6	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
<b>Batch B9F0407 - EPA 3580</b>										
<b>Blank (B9F0407-BLK2)</b>					Prepared: 06/04/2019 Analyzed: 06/04/2019					
Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42.5		"	50.0		85.0	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 B9F0407 - EPA 3580**

**LCS (B9F0407-BS1)**

Prepared: 06/04/2019 Analyzed: 06/04/2019

Gasoline (C6-C10)	1230	50.0	mg/kg	1000		123	70-130			
Diesel (C10-C28)	1020	50.0	"	1000		102	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000		87.6	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.4	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 B9F0407 - EPA 3580**

**LCS (B9F0407-BS2)**

Prepared: 06/04/2019 Analyzed: 06/04/2019

Gasoline (C6-C10)	1160	50.0	mg/kg	1000		116	70-130			
Diesel (C10-C28)	942	50.0	"	1000		94.2	70-130			
Residual Range Organics (C28-C40)	828	200	"	1000		82.8	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.1	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 B9F0407 - EPA 3580**

<b>Matrix Spike (B9F0407-MS1)</b>	<b>Source: Y906049-01</b>			<b>Prepared: 06/04/2019 Analyzed: 06/04/2019</b>						
Gasoline (C6-C10)	1000	50.0	mg/kg	1000	ND	100	70-130			
Diesel (C10-C28)	853	50.0	"	1000	33.5	82.0	70-130			
Residual Range Organics (C28-C40)	759	200	"	1000	26.9	73.2	70-130			
Surrogate: o-Terphenyl	36.7		"	50.0		73.5	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Vessels Minerals 19-15 Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9F0407 - EPA 3580**

<b>Matrix Spike (B9F0407-MS2)</b>	<b>Source: Y906051-01</b>			<b>Prepared: 06/04/2019 Analyzed: 06/04/2019</b>						
Gasoline (C6-C10)	1210	50.0	mg/kg	1000	24.4	119	70-130			
Diesel (C10-C28)	1070	50.0	"	1000	132	93.5	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000	78.5	86.8	70-130			
Surrogate: o-Terphenyl	48.4		"	50.0		96.8	50-150			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9F0407 - EPA 3580**

<b>Matrix Spike Dup (B9F0407-MSD1)</b>	<b>Source: Y906049-01</b>			<b>Prepared: 06/04/2019 Analyzed: 06/04/2019</b>						
Gasoline (C6-C10)	1060	50.0	mg/kg	1000	ND	106	70-130	5.56	35	
Diesel (C10-C28)	888	50.0	"	1000	33.5	85.4	70-130	3.93	35	
Residual Range Organics (C28-C40)	806	200	"	1000	26.9	77.9	70-130	6.00	35	
Surrogate: o-Terphenyl	38.6		"	50.0		77.2	50-150			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9F0407 - EPA 3580**

<b>Matrix Spike Dup (B9F0407-MSD2)</b>	<b>Source: Y906051-01</b>			<b>Prepared: 06/04/2019 Analyzed: 06/04/2019</b>						
Gasoline (C6-C10)	1200	50.0	mg/kg	1000	24.4	118	70-130	0.667	35	
Diesel (C10-C28)	1040	50.0	"	1000	132	90.5	70-130	2.79	35	
Residual Range Organics (C28-C40)	836	200	"	1000	78.5	75.7	70-130	12.4	35	
Surrogate: o-Terphenyl	51.0		"	50.0		102	50-150			

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### Notes and Definitions

U Sample is Non-Detect.

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.

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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Jen Pellegrini For Noelle Doyle Mathis, President