



April 10, 2017

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - NHF Laura 1

Project Number - 027317003

Attached are your analytical results for NHF Laura 1 received by Origins Laboratory, Inc. April 07, 2017. This project is associated with Origins project number Y704087-01.

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

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Rob Rebel  
Project Number: 027317003  
Project: NHF Laura 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	Y704087-01	Soil	April 7, 2017 12:15	04/07/2017 16:15
SS02	Y704087-02	Soil	April 7, 2017 12:25	04/07/2017 16:15
SS03	Y704087-03	Soil	April 7, 2017 12:45	04/07/2017 16:15
SS04	Y704087-04	Soil	April 7, 2017 13:30	04/07/2017 16:15
SS05	Y704087-05	Soil	April 7, 2017 13:45	04/07/2017 16:15

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Jen Pellegrini For Noelle Doyle Mathis, President



LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Rob Rebel  
 Project Number: 027317003  
 Project: NHF Laura 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4704087 Client: LTE  
 Client Project ID: NHF Laura 1  
 Checklist Completed by: De Lee Shipped Via: HQ  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 4-7-17 1734 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 4.8 °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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 4-7-17 1734

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Rob Rebel  
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 Project: NHF Laura 1

**SS01**

**4/7/2017 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y704087-01 (Soil)**

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

Diesel (C10-C28)	<b>748</b>	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	
Surrogate: <i>o</i> -Terphenyl	88.9 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>464</b>	50.0	mg/kg	250	B7D0702	04/07/2017	04/08/2017	
Benzene	<b>0.114</b>	0.050	"	25	"	"	04/07/2017	
Toluene	<b>2.52</b>	0.050	"	"	"	"	"	
Ethylbenzene	<b>1.62</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>15.8</b>	0.050	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	117 %	70-130			"	"	"	

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**SS02**

**4/7/2017 12:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y704087-02 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
Surrogate: o-Terphenyl	80.9 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>20.7</b>	5.00	mg/kg	25	B7D0702	04/07/2017	04/07/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	

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**SS03**

**4/7/2017 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y704087-03 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
Surrogate: o-Terphenyl	87.7 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>5.08</b>	5.00	mg/kg	25	B7D0702	04/07/2017	04/07/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	

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**SS04**

**4/7/2017 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y704087-04 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
Surrogate: <i>o</i> -Terphenyl	87.5 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7D0702	04/07/2017	04/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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**SS05**

**4/7/2017 1:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y704087-05 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D0703	04/07/2017	04/08/2017	U
Surrogate: <i>o</i> -Terphenyl	69.7 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7D0702	04/07/2017	04/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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 B7D0702 - EPA 5030 (soil)

Blank (B7D0702-BLK1)

Prepared: 04/07/2017 Analyzed: 04/07/2017

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	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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 B7D0702 - EPA 5030 (soil)**

**Blank (B7D0702-BLK2)**

Prepared: 04/07/2017 Analyzed: 04/07/2017

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	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	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 B7D0702 - EPA 5030 (soil)**

**LCS (B7D0702-BS1)**

Prepared: 04/07/2017 Analyzed: 04/07/2017

Benzene	0.115	0.002	mg/kg	0.100		115	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.220	0.004	"	0.200		110	76.6-124			
o-Xylene	0.112	0.002	"	0.100		112	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	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 B7D0702 - EPA 5030 (soil)**

**LCS (B7D0702-BS2)**

Prepared: 04/07/2017 Analyzed: 04/07/2017

Benzene	0.103	0.002	mg/kg	0.100		103	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		105	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7D0702 - EPA 5030 (soil)

Matrix Spike (B7D0702-MS1)	Source: Y704061-01			Prepared: 04/07/2017 Analyzed: 04/07/2017						
Benzene	0.109	0.002	mg/kg	0.100	ND	109	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130			
m,p-Xylene	0.210	0.004	"	0.200	ND	105	46.5-137			
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7D0702 - EPA 5030 (soil)**

<b>Matrix Spike (B7D0702-MS2)</b>	<b>Source: Y704081-01</b>			<b>Prepared: 04/07/2017 Analyzed: 04/07/2017</b>						
Benzene	2.49	0.050	mg/kg	2.50	ND	99.8	71.8-126			
Toluene	2.45	0.050	"	2.50	ND	97.9	65.1-130			
Ethylbenzene	2.42	0.050	"	2.50	ND	97.0	62.2-130			
m,p-Xylene	4.81	0.100	"	5.00	ND	96.2	46.5-137			
o-Xylene	2.45	0.050	"	2.50	ND	98.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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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 B7D0702 - EPA 5030 (soil)

Matrix Spike Dup (B7D0702-MSD1)	Source: Y704061-01			Prepared: 04/07/2017 Analyzed: 04/07/2017						
Benzene	0.097	0.002	mg/kg	0.100	ND	96.7	71.8-126	12.0	11.3	QR-02
Toluene	0.089	0.002	"	0.100	ND	89.1	65.1-130	15.0	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.1	62.2-130	16.9	19.6	
m,p-Xylene	0.176	0.004	"	0.200	ND	87.9	46.5-137	17.7	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.0	54.2-134	14.7	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.4	70-130			

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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 B7D0702 - EPA 5030 (soil)**

Matrix Spike Dup (B7D0702-MSD2)	Source: Y704081-01			Prepared: 04/07/2017 Analyzed: 04/07/2017						
Benzene	2.36	0.050	mg/kg	2.50	ND	94.4	71.8-126	5.56	11.3	
Toluene	2.28	0.050	"	2.50	ND	91.0	65.1-130	7.31	15.4	
Ethylbenzene	2.22	0.050	"	2.50	ND	89.0	62.2-130	8.63	19.6	
m,p-Xylene	4.47	0.100	"	5.00	ND	89.4	46.5-137	7.39	19.2	
o-Xylene	2.44	0.050	"	2.50	ND	97.5	54.2-134	0.675	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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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**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 B7D0703 - EPA 3550B**

**Blank (B7D0703-BLK1)**

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 42 " 50.0 84.2 59-131

**Blank (B7D0703-BLK2)**

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 36 " 50.0 72.4 59-131

**LCS (B7D0703-BS1)**

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28) 959 50.0 mg/kg 1000 95.9 64-121

Surrogate: o-Terphenyl 46 " 50.0 92.1 59-131

**LCS (B7D0703-BS2)**

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28) 965 50.0 mg/kg 1000 96.5 64-121

Surrogate: o-Terphenyl 47 " 50.0 93.9 59-131

**Matrix Spike (B7D0703-MS1)**

Source: Y704061-01

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28) 948 50.0 mg/kg 1000 14.0 93.4 53-125

Surrogate: o-Terphenyl 44 " 50.0 87.9 59-131

**Matrix Spike (B7D0703-MS2)**

Source: Y704061-05

Prepared: 04/07/2017 Analyzed: 04/07/2017

Diesel (C10-C28) 957 50.0 mg/kg 1000 31.7 92.5 53-125

Surrogate: o-Terphenyl 47 " 50.0 94.4 59-131

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Rob Rebel  
 Project Number: 027317003  
 Project: NHF Laura 1

**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
<b>Batch B7D0703 - EPA 3550B</b>										
<b>Matrix Spike Dup (B7D0703-MSD1)</b>		<b>Source: Y704061-01</b>			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Diesel (C10-C28)	957	50.0	mg/kg	1000	14.0	94.3	53-125	0.906	20	
Surrogate: o-Terphenyl	47		"	50.0		93.8	59-131			
<b>Matrix Spike Dup (B7D0703-MSD2)</b>		<b>Source: Y704061-05</b>			Prepared: 04/07/2017 Analyzed: 04/07/2017					
Diesel (C10-C28)	926	50.0	mg/kg	1000	31.7	89.5	53-125	3.21	20	
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Rob Rebel  
Project Number: 027317003  
Project: NHF Laura 1

---

### 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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April 11, 2017

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - NHF Laura 1

Project Number - 027317004

Attached are your analytical results for NHF Laura 1 received by Origins Laboratory, Inc. April 10, 2017. This project is associated with Origins project number Y704108-01.

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

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Rob Rebel  
Project Number: 027317004  
Project: NHF Laura 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06	Y704108-01	Soil	April 10, 2017 12:10	04/10/2017 16:00

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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 Arvada CO 80003

Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y704108 Client: LTF  
 Client Project ID: NHF Laura 1  
 Checklist Completed by: Dale Shipped Via: HS  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 4-10-12 12:16 PM Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 3.6 °C 1 °C 1 °C (Describe)  
 Thermometer ID: 7003

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? If yes, contact client and note in narrative.			<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 4-10-12 1641

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**SS06**

**4/10/2017 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y704108-01 (Soil)**

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7D1005	04/10/2017	04/11/2017	U
<i>Surrogate: o-Terphenyl</i>	72.6 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7D1001	04/10/2017	04/10/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	104 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	107 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.4 %	70-130			"	"	"	

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Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**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 B7D1001 - EPA 5030 (soil)**

**Blank (B7D1001-BLK1)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

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	62		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**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 B7D1001 - EPA 5030 (soil)**

**Blank (B7D1001-BLK2)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

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	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**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 B7D1001 - EPA 5030 (soil)**

**LCS (B7D1001-BS1)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

Benzene	0.095	0.002	mg/kg	0.100		94.6	77.1-124			
Toluene	0.099	0.002	"	0.100		99.0	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.204	0.004	"	0.200		102	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	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 B7D1001 - EPA 5030 (soil)

**LCS (B7D1001-BS2)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

Benzene	0.084	0.002	mg/kg	0.100		84.4	77.1-124			
Toluene	0.095	0.002	"	0.100		95.0	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.206	0.004	"	0.200		103	76.6-124			
o-Xylene	0.100	0.002	"	0.100		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.7	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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 Project: NHF Laura 1

**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 B7D1001 - EPA 5030 (soil)**

<b>Matrix Spike (B7D1001-MS1)</b>	<b>Source: Y704090-01</b>			<b>Prepared: 04/10/2017 Analyzed: 04/10/2017</b>						
Benzene	2.55	0.050	mg/kg	2.50	ND	102	71.8-126			
Toluene	2.71	0.050	"	2.50	ND	108	65.1-130			
Ethylbenzene	2.84	0.050	"	2.50	ND	114	62.2-130			
m,p-Xylene	5.69	0.100	"	5.00	ND	114	46.5-137			
o-Xylene	2.68	0.050	"	2.50	ND	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	70-130			

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 Project Number: 027317004  
 Project: NHF Laura 1

**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 B7D1001 - EPA 5030 (soil)

Matrix Spike (B7D1001-MS2)	Source: Y704107-01			Prepared: 04/10/2017 Analyzed: 04/10/2017						
Benzene	0.082	0.002	mg/kg	0.100	ND	81.8	71.8-126			
Toluene	0.092	0.002	"	0.100	ND	91.6	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	ND	94.1	62.2-130			
m,p-Xylene	0.191	0.004	"	0.200	ND	95.6	46.5-137			
o-Xylene	0.094	0.002	"	0.100	ND	93.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.4	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	70-130			

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 Arvada CO 80003

Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**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 B7D1001 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B7D1001-MSD1)</b>	<b>Source: Y704090-01</b>			<b>Prepared: 04/10/2017 Analyzed: 04/10/2017</b>						
Benzene	2.45	0.050	mg/kg	2.50	ND	97.8	71.8-126	4.05	11.3	
Toluene	2.57	0.050	"	2.50	ND	103	65.1-130	5.02	15.4	
Ethylbenzene	2.69	0.050	"	2.50	ND	108	62.2-130	5.51	19.6	
m,p-Xylene	5.37	0.100	"	5.00	ND	107	46.5-137	5.73	19.2	
o-Xylene	2.57	0.050	"	2.50	ND	103	54.2-134	4.36	17.9	
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.0	70-130			

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 Arvada CO 80003

Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**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 B7D1001 - EPA 5030 (soil)

Matrix Spike Dup (B7D1001-MSD2)	Source: Y704107-01			Prepared: 04/10/2017 Analyzed: 04/10/2017						
Benzene	0.087	0.002	mg/kg	0.100	ND	86.9	71.8-126	6.09	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.4	65.1-130	3.10	15.4	
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130	6.64	19.6	
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137	6.43	19.2	
o-Xylene	0.099	0.002	"	0.100	ND	98.9	54.2-134	5.35	17.9	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**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 B7D1005 - EPA 3550B**

**Blank (B7D1005-BLK1)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 45 " 50.0 89.8 59-131

**Blank (B7D1005-BLK2)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 35 " 50.0 69.9 59-131

**LCS (B7D1005-BS1)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

Diesel (C10-C28) 751 50.0 mg/kg 1000 75.1 64-121

Surrogate: o-Terphenyl 39 " 50.0 77.9 59-131

**LCS (B7D1005-BS2)**

Prepared: 04/10/2017 Analyzed: 04/10/2017

Diesel (C10-C28) 766 50.0 mg/kg 1000 76.6 64-121

Surrogate: o-Terphenyl 39 " 50.0 78.4 59-131

**Matrix Spike (B7D1005-MS1)**

Source: Y704038-02

Prepared: 04/10/2017 Analyzed: 04/10/2017

Diesel (C10-C28) 830 50.0 mg/kg 1000 136 69.4 53-125

Surrogate: o-Terphenyl 38 " 50.0 76.1 59-131

**Matrix Spike (B7D1005-MS2)**

Source: Y704038-03

Prepared: 04/10/2017 Analyzed: 04/10/2017

Diesel (C10-C28) 868 50.0 mg/kg 1000 149 71.9 53-125

Surrogate: o-Terphenyl 40 " 50.0 80.6 59-131

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Rob Rebel  
 Project Number: 027317004  
 Project: NHF Laura 1

**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
<b>Batch B7D1005 - EPA 3550B</b>										
<b>Matrix Spike Dup (B7D1005-MSD1)</b>			<b>Source: Y704038-02</b>		Prepared: 04/10/2017 Analyzed: 04/10/2017					
Diesel (C10-C28)	841	50.0	mg/kg	1000	136	70.5	53-125	1.33	20	
Surrogate: o-Terphenyl	38		"	50.0		77.0	59-131			
<b>Matrix Spike Dup (B7D1005-MSD2)</b>			<b>Source: Y704038-03</b>		Prepared: 04/10/2017 Analyzed: 04/10/2017					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	149	92.8	53-125	21.4	20	QR-02
Surrogate: o-Terphenyl	49		"	50.0		97.6	59-131			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Rob Rebel  
Project Number: 027317004  
Project: NHF Laura 1

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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