

Attachment A

Laboratory Analytical Report



February 10, 2020

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - HSR Fogelman 6-26A

Project Number - 2151672

Attached are your analytical results for KMG - HSR Fogelman 6-26A received by Origins Laboratory, Inc. February 04, 2020. This project is associated with Origins project number Y002023-01.

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

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: 2151672
Project: KMG - HSR Fogelman 6-26A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@4'	Y002023-01	Soil	February 4, 2020 13:20	02/04/2020 15:05
N01@2'	Y002023-02	Soil	February 4, 2020 13:22	02/04/2020 15:05
E01@2'	Y002023-03	Soil	February 4, 2020 13:24	02/04/2020 15:05
S01@2'	Y002023-04	Soil	February 4, 2020 13:26	02/04/2020 15:05
W01@2'	Y002023-05	Soil	February 4, 2020 13:28	02/04/2020 15:05

Origins Laboratory, Inc.



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Apex Companies, LLC
 4150 Darley Avenue, Suite 1
 Boulder CO 80305

Maggie Graham
 Project Number: 2151672
 Project: KMG - HSR Fogelman 6-26A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002023 Client: Apex
 Client Project ID: HSR Fogelman 6-26A
 Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 2/4/2020 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.3 °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 ⁽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"/>		
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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 2/4/20

Origins Laboratory, Inc.

Jefe Pellegrini

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Apex Companies, LLC
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 Boulder CO 80305

Maggie Graham
 Project Number: 2151672
 Project: KMG - HSR Fogelman 6-26A

B01@4'

2/4/2020 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002023-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0B0402	KDK	02/04/2020	02/04/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 79.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B0401	ZZZ	"	02/04/2020	U
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 96.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.0 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.91		me/L	1	[none]		02/05/2020	02/07/2020	
Magnesium	0.78		"	"	"		"	"	
Sodium	1.77		"	"	"		"	"	

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Maggie Graham
 Project Number: 2151672
 Project: KMG - HSR Fogelman 6-26A

B01@4'

2/4/2020 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002023-01 (Soil)

pH in Soil by EPA 9045D

pH	6.04		pH Units	1	B0B0406	TEM	02/04/2020	02/04/2020	
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SAR by 20B Saturated Paste

SAR	1.53			1	[none]		02/05/2020	02/07/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0317	0.00500	mmhos/cm	1	B0B0407	TEM	02/04/2020	02/04/2020	
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Maggie Graham
 Project Number: 2151672
 Project: KMG - HSR Fogelman 6-26A

N01@2'

2/4/2020 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002023-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0B0402	KDK	02/04/2020	02/04/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 59.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B0401	ZZZ	"	02/04/2020	U
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 97.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

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Maggie Graham
 Project Number: 2151672
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E01@2'

2/4/2020 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002023-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0B0402	KDK	02/04/2020	02/04/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 68.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B0401	ZZZ	"	02/04/2020	U
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 97.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.3 % 70-130 " " "

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Maggie Graham
 Project Number: 2151672
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S01@2'

2/4/2020 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002023-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0B0402	KDK	02/04/2020	02/04/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 70.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B0401	ZZZ	"	02/04/2020	U
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 95.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

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Maggie Graham
 Project Number: 2151672
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W01@2'

2/4/2020 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y002023-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0B0402	KDK	02/04/2020	02/04/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 66.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0B0401	ZZZ	"	02/04/2020	U
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

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Maggie Graham
 Project Number: 2151672
 Project: KMG - HSR Fogelman 6-26A

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 B0B0401 - EPA 5030 (soil)

Blank (B0B0401-BLK1)

Prepared: 02/04/2020 Analyzed: 02/04/2020

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Maggie Graham
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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 B0B0401 - EPA 5030 (soil)

LCS (B0B0401-BS1)

Prepared: 02/04/2020 Analyzed: 02/04/2020

Benzene	0.100	0.002	mg/kg	0.100		100	70-130			
Toluene	0.098	0.002	"	0.100		98.1	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.203	0.004	"	0.200		101	70-130			
o-Xylene	0.105	0.002	"	0.100		105	70-130			
Naphthalene	0.096	0.008	"	0.100		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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Maggie Graham
 Project Number: 2151672
 Project: KMG - HSR Fogelman 6-26A

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 B0B0401 - EPA 5030 (soil)

Matrix Spike (B0B0401-MS1)	Source: Y002017-02			Prepared: 02/04/2020 Analyzed: 02/04/2020						
Benzene	0.122	0.002	mg/kg	0.100	ND	122	70-130			
Toluene	0.123	0.002	"	0.100	ND	123	70-130			
Ethylbenzene	0.123	0.002	"	0.100	ND	123	70-130			
m,p-Xylene	0.243	0.004	"	0.200	ND	121	70-130			
o-Xylene	0.125	0.002	"	0.100	ND	125	70-130			
Naphthalene	0.124	0.008	"	0.100	ND	124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	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 B0B0401 - EPA 5030 (soil)

Matrix Spike Dup (B0B0401-MSD1)	Source: Y002017-02			Prepared: 02/04/2020 Analyzed: 02/04/2020						
Benzene	0.106	0.002	mg/kg	0.100	ND	106	70-130	13.5	20	
Toluene	0.109	0.002	"	0.100	ND	109	70-130	12.8	20	
Ethylbenzene	0.111	0.002	"	0.100	ND	111	70-130	10.6	20	
m,p-Xylene	0.217	0.004	"	0.200	ND	109	70-130	11.0	20	
o-Xylene	0.110	0.002	"	0.100	ND	110	70-130	12.1	20	
Naphthalene	0.109	0.008	"	0.100	ND	109	70-130	12.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	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
Batch B0B0402 - EPA 3580										
Blank (B0B0402-BLK1)										
					Prepared: 02/04/2020 Analyzed: 02/04/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	14		"	25.0		56.8	50-150			

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Maggie Graham
 Project Number: 2151672
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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 B0B0402 - EPA 3580

LCS (B0B0402-BS1)

Prepared: 02/04/2020 Analyzed: 02/04/2020

Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Residual Range Organics (C28-C40)	888	200	"	1000		88.8	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.0	50-150			

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Maggie Graham
 Project Number: 2151672
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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 B0B0402 - EPA 3580

Matrix Spike (B0B0402-MS1)	Source: Y002017-02			Prepared: 02/04/2020 Analyzed: 02/04/2020						
Diesel (C10-C28)	798	50.0	mg/kg	1000	ND	79.8	70-130			
Residual Range Organics (C28-C40)	857	200	"	1000	ND	85.7	70-130			
Surrogate: o-Terphenyl	36		"	50.0		72.7	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
Batch B0B0402 - EPA 3580										
Matrix Spike Dup (B0B0402-MSD1)					Source: Y002017-02					Prepared: 02/04/2020 Analyzed: 02/04/2020
Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	70-130	14.0	35	
Residual Range Organics (C28-C40)	972	200	"	1000	ND	97.2	70-130	12.6	35	
Surrogate: o-Terphenyl	44		"	50.0		88.3	50-150			

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Notes and Definitions

U Sample is Non-Detect.

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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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.

Jen Pellegrini For Noelle Doyle Mathis, President