



March 12, 2019

Olsson Associates

Jason Davidson

1525 Raleigh St, Suite 400

Denver

CO 80204

Project Name - Kraus-Albin #22-20 TB

Project Number - 018-0459

Attached are your analytical results for Kraus-Albin #22-20 TB received by Origins Laboratory, Inc. March 07, 2019. This project is associated with Origins project number Y903092-01.

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

Olsson Associates

1525 Raleigh St, Suite 400

Denver CO 80204

Jason Davidson

Project Number: 018-0459

Project: Kraus-Albin #22-20 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-13-19	Y903092-01	Soil	March 6, 2019 9:10	03/07/2019 13:53
SB-14-10	Y903092-02	Soil	March 6, 2019 12:20	03/07/2019 13:53
SB-15-18	Y903092-03	Soil	March 6, 2019 14:40	03/07/2019 13:53
SB-15-22	Y903092-04	Soil	March 6, 2019 14:45	03/07/2019 13:53
SB-16-18	Y903092-05	Soil	March 6, 2019 15:00	03/07/2019 13:53
SB-17-23	Y903092-06	Soil	March 6, 2019 16:05	03/07/2019 13:53
SB-18-20	Y903092-07	Soil	March 6, 2019 16:25	03/07/2019 13:53
SB-19-20	Y903092-08	Soil	March 6, 2019 17:10	03/07/2019 13:53

Origins Laboratory, Inc.



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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

9403092

Chain of Custody

olsson

PROJECT NAME	Kraus Albin 22-20	PROJECT NUMBER	018-0459	DISPOSAL	By Lab	PAGE	1	of	1
COMPANY NAME	Olsson Associates	PHONE NUMBER	303-237-2072	LAB USE ONLY: Temperature upon receipt: 59 Custody seals in tact: Yes No N/A					
ADDRESS	1525 Raleigh St., Suite 400	CITY/STATE/ZIP	Denver/CO/80204	Turn Around Time (check) Standard x 72hr 48hr 24hr Same Day					
PROJECT MANAGER	Jason Davidson	PIV EMAIL	jdavidson@olsson.com	Notes:					
SAMPLER	Trent Wainre								

DIRECT BILL CLIENT?	YES: <input type="checkbox"/> NO: <input checked="" type="checkbox"/>	CLIENT COMPANY:	
SEND COPY OF ANALYTICAL TO CLIENT?	YES: <input type="checkbox"/> NO: <input checked="" type="checkbox"/>	CLIENT NAME:	
		CLIENT EMAIL:	
		CLIENT PROJECT #:	

Lab ID	Field ID	Matrix	Sample Date	Sample Time	Sample # Bottles	Notes
SB-13-19		SOIL	3/6/2019	0910	1	X
SB-14-10		SOIL	3/6/2019	1220	1	X
SB-15-18		SOIL	3/6/2019	1440	1	X
SB-15-22		SOIL	3/6/2019	1445	1	X
SB-16-18		SOIL	3/6/2019	1500	1	X
SB-17-23		SOIL	3/6/2019	1605	1	X
SB-18-20		SOIL	3/6/2019	1625	1	X
SB-19-20		SOIL	3/6/2019	1710	1	X

Comments:	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/> LEVEL II (Standard OC)	
	<input type="checkbox"/> LEVEL III (Std OC + forms)	
	<input type="checkbox"/> LEVEL IV (Std OC + forms + raw data)	

RELINQUISHED BY	PRINTED NAME	SIGNATURE	DATE	TIME
BY	Matthew Clark	<i>Matthew Clark</i>	3-7-19	1353
RECEIVED BY	David Lee	<i>David Lee</i>	3-7-19	1353
RELINQUISHED BY				
RECEIVED BY				

Origins Laboratory, Inc.

Jefe Pellegrini

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Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y903092

Client: Olsson

Client Project ID: Kraus-Albin

Checklist Completed by: JP

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

Date/time completed: 3/8/19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 5.9 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C

Thermometer ID: TC03

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 (> 1/4 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) JP

Date/Time Reviewed 3/12/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-13-19

3/6/2019 9:10:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903092-01 (Soil)

BTEX by EPA 8260C

Benzene	0.002	0.002	mg/kg	1	B9C1106	JTD	03/11/2019	03/12/2019	
Toluene	0.007	0.002	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	77.4 %	59-131			"	"	"	
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Origins Laboratory, Inc.



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1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-14-10

3/6/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-02 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	129	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019
Diesel (C10-C28)	543	50.0	"	"	"	JTD	"	"

Surrogate: o-Terphenyl	94.4 %	59-131			"	"	"
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Origins Laboratory, Inc.



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Denver CO 80204

Jason Davidson

Project Number: 018-0459

Project: Kraus-Albin #22-20 TB

SB-15-18

3/6/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-03 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	1050	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	
Diesel (C10-C28)	1090	50.0	"	"	"	JTD	"	"	
Surrogate: o-Terphenyl	100 %	59-131			"	"	"	"	

Origins Laboratory, Inc.



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Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-15-22

3/6/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-04 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	83.6 %	59-131			"	"	"		
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Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-16-18

3/6/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-05 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	80.3 %	59-131			"	"	"		
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Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-17-23

3/6/2019 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-06 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	74.9 %	59-131			"	"	"	
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Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-18-20

3/6/2019 4:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-07 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	78.1 %	59-131			"	"	"	
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Denver CO 80204

Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-19-20

3/6/2019 5:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903092-08 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B9C1106	JTD	03/11/2019	03/12/2019	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

99.4 % 70-130
99.3 % 70-130
99.4 % 70-130

" "
" "
" "

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl

81.9 % 59-131

" "

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Jason Davidson
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Project: Kraus-Albin #22-20 TB

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
Batch B9C1106 - EPA 5030 (soil)										
Blank (B9C1106-BLK1)					Prepared: 03/11/2019 Analyzed: 03/11/2019					
Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.2	70-130			

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Jason Davidson
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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
Batch B9C1106 - EPA 5030 (soil)										
LCS (B9C1106-BS1)					Prepared: 03/11/2019 Analyzed: 03/11/2019					
Benzene	0.099	0.002	mg/kg	0.100		99.4	77.1-124			
Toluene	0.100	0.002	"	0.100		99.6	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		103	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B9C1106 - EPA 5030 (soil)

Matrix Spike (B9C1106-MS1)		Source: Y903100-01			Prepared: 03/11/2019 Analyzed: 03/11/2019					
Benzene	0.079	0.002	mg/kg	0.100	0.0007	78.3	71.8-126			
Toluene	0.076	0.002	"	0.100	0.006	69.1	65.1-130			
Ethylbenzene	0.062	0.002	"	0.100	ND	62.5	62.2-130			
m,p-Xylene	0.125	0.004	"	0.200	0.004	60.3	46.5-137			
o-Xylene	0.063	0.002	"	0.100	0.0007	62.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 B9C1106 - EPA 5030 (soil)

Matrix Spike Dup (B9C1106-MSD1)		Source: Y903100-01			Prepared: 03/11/2019 Analyzed: 03/11/2019					
Benzene	0.081	0.002	mg/kg	0.100	0.0007	79.8	71.8-126	1.85	11.3	
Toluene	0.077	0.002	"	0.100	0.006	70.7	65.1-130	2.04	15.4	
Ethylbenzene	0.064	0.002	"	0.100	ND	64.0	62.2-130	2.43	19.6	
m,p-Xylene	0.128	0.004	"	0.200	0.004	61.9	46.5-137	2.44	19.2	
o-Xylene	0.064	0.002	"	0.100	0.0007	63.7	54.2-134	2.42	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

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 B9C1107 - EPA 3580

Blank (B9C1107-BLK1)

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.6	59-131			

LCS (B9C1107-BS1)

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	913	50.0	mg/kg	1000		91.3	59-133			
Diesel (C10-C28)	940	50.0	"	1000		94.0	64-121			
Surrogate: o-Terphenyl	49		"	50.0		98.1	59-131			

Matrix Spike (B9C1107-MS1)

Source: Y903100-01

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	922	50.0	mg/kg	1000	ND	92.2	57-139			
Diesel (C10-C28)	1070	50.0	"	1000	421	65.2	53-125			
Surrogate: o-Terphenyl	44		"	50.0		87.4	59-131			

Matrix Spike Dup (B9C1107-MSD1)

Source: Y903100-01

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	949	50.0	mg/kg	1000	ND	94.9	57-139	2.88	20	
Diesel (C10-C28)	988	50.0	"	1000	421	56.8	53-125	8.19	20	
Surrogate: o-Terphenyl	45		"	50.0		90.8	59-131			

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Denver CO 80204

Jason Davidson

Project Number: 018-0459

Project: Kraus-Albin #22-20 TB

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