



May 13, 2019

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

Project Name - CPR - Wenzel 1

Project Number - [none]

Attached are your analytical results for CPR - Wenzel 1 received by Origins Laboratory, Inc. May 06, 2019. This project is associated with Origins project number Y905073-01.

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 - Wenzel 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@0-2.5'	Y905073-01	Soil	May 6, 2019 16:25	05/06/2019 17:25

Origins Laboratory, Inc.



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Dan Coloccia
Project Number: [none]
Project: CPR - Wenzel 1

ORIGINS

LABORATORY, INC

Y905073

www.originslaboratory.com

page 1 of 1

Client: EAGLE
 Address: 4101 INCA ST.
DENVER, CO 80211
 Telephone Number: 303-433-0779
 Email Address: DMUCCIA@EAGLE-ENVIRO.COM

Project Manager: DANIEL CALOCCIA
 Project Name: CPR - WENZEL I
 Project Number: SV
 Samples Collected By: SV

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	Air Canister #	Other	BTEX	TPH	5A9		PH	EC	
SB-01C-02.5	5/6/19	16:25	2	X						X				X	X	X	X	CRESTONE RATES 1
																		2
																		3
																		4
																		5
																		6
																		7
																		8
																		9
																		10
Relinquished By: <u>[Signature]</u>	Date: <u>5/6/19</u>	Time: <u>17:25</u>		Received By: <u>[Signature]</u>				Date: <u>5/6/19</u>			Time: <u>1725</u>			Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard				
Relinquished By: <u>[Signature]</u>	Date: <u>5/6/19</u>	Time: <u>17:25</u>		Received By: <u>[Signature]</u>				Date: <u>5/6/19</u>			Time: <u>1725</u>			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- 0.6

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver

CO

80211

Dan Coloccia

Project Number: [none]

Project: CPR - Wenzel 1

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1905073

Client: Eagle

Client Project ID: Wenzel 1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 5 / 7 / 2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 0.6 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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 5/8/19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Dan Coloccia
Project Number: [none]
Project: CPR - Wenzel 1

SB-01@0-2.5'

5/6/2019 4:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905073-01 (Soil)

BTEX by EPA 8260D

Benzene	ND	0.002	mg/kg	1	B9E0703	KDK	05/07/2019	05/08/2019	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Metals (Saturated Paste Prep)

Calcium	16.18	me/L	1	'[none]'		05/08/2019	05/10/2019
Magnesium	4.84	"	"	"		"	"
Sodium	5.62	"	"	"		"	"

pH in Soil by EPA 9045D

pH	8.11	pH Units	1	B9E0705	OLAB	05/07/2019	05/07/2019
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SAR by 20B Saturated Paste

SAR	1.73		1	'[none]'		05/08/2019	05/10/2019
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.108	0.00502	mmhos/cm	1	B9E0706	OLAB	05/07/2019	05/07/2019
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Project Number: [none]

Project: CPR - Wenzel 1

SB-01@0-2.5'

5/6/2019 4:25:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.

Y905073-01 (Soil)

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9E0704	JTD	05/07/2019	05/07/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	96.3 %	50-150	"	"	"
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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: CPR - Wenzel 1

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 B9E0703 - EPA 5030 (soil)										
Blank (B9E0703-BLK1)					Prepared: 05/07/2019 Analyzed: 05/07/2019					
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	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project Number: [none]

Project: CPR - Wenzel 1

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 B9E0703 - EPA 5030 (soil)

LCS (B9E0703-BS1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

Benzene	0.091	0.002	mg/kg	0.100		90.7	70-130			
Toluene	0.091	0.002	"	0.100		90.6	70-130			
Ethylbenzene	0.087	0.002	"	0.100		87.5	70-130			
m,p-Xylene	0.178	0.004	"	0.200		88.9	70-130			
o-Xylene	0.091	0.002	"	0.100		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

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Project: CPR - Wenzel 1

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 B9E0703 - EPA 5030 (soil)

Matrix Spike (B9E0703-MS1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	0.084	0.002	mg/kg	0.100	ND	84.5	70-130			
Toluene	0.081	0.002	"	0.100	ND	80.7	70-130			
Ethylbenzene	0.076	0.002	"	0.100	ND	76.1	70-130			
m,p-Xylene	0.155	0.004	"	0.200	ND	77.6	70-130			
o-Xylene	0.079	0.002	"	0.100	0.0003	78.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project: CPR - Wenzel 1

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 B9E0703 - EPA 5030 (soil)

Matrix Spike Dup (B9E0703-MSD1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.9	70-130	2.82	20	
Toluene	0.084	0.002	"	0.100	ND	83.6	70-130	3.60	20	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.0	70-130	7.46	20	
m,p-Xylene	0.168	0.004	"	0.200	ND	83.9	70-130	7.87	20	
o-Xylene	0.085	0.002	"	0.100	0.0003	85.3	70-130	7.85	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 B9E0704 - EPA 3580

Blank (B9E0704-BLK1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

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	47.7		"	50.0		95.3	50-150			

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Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Wenzel 1

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 B9E0704 - EPA 3580										
Blank (B9E0704-BLK2)					Prepared: 05/07/2019 Analyzed: 05/07/2019					
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	53.2		"	50.0		106	50-150			

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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Wenzel 1

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 B9E0704 - EPA 3580

LCS (B9E0704-BS1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

Gasoline (C6-C10)	1040	50.0	mg/kg	1000		104	70-130			
Diesel (C10-C28)	1050	50.0	"	1000		105	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	50-150			

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Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Wenzel 1

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 B9E0704 - EPA 3580

LCS (B9E0704-BS2)

Prepared: 05/07/2019 Analyzed: 05/07/2019

Gasoline (C6-C10)	1040	50.0	mg/kg	1000		104	70-130			
Diesel (C10-C28)	1010	50.0	"	1000		101	70-130			
Residual Range Organics (C28-C40)	987	200	"	1000		98.7	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	50-150			

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Project Number: [none]

Project: CPR - Wenzel 1

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 B9E0704 - EPA 3580

Matrix Spike (B9E0704-MS1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	1050	50.0	mg/kg	1000	18.0	103	70-130			
Diesel (C10-C28)	1020	50.0	"	1000	13.9	101	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	12.1	99.8	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	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 B9E0704 - EPA 3580

Matrix Spike (B9E0704-MS2)		Source: Y905090-03			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	1040	50.0	mg/kg	1000	ND	104	70-130			
Diesel (C10-C28)	1030	50.0	"	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	5.60	103	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	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 B9E0704 - EPA 3580

Matrix Spike Dup (B9E0704-MSD1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	936	50.0	mg/kg	1000	18.0	91.8	70-130	11.1	35	
Diesel (C10-C28)	929	50.0	"	1000	13.9	91.5	70-130	9.37	35	
Residual Range Organics (C28-C40)	881	200	"	1000	12.1	86.9	70-130	13.6	35	
Surrogate: o-Terphenyl	46.2		"	50.0		92.3	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 B9E0704 - EPA 3580

Matrix Spike Dup (B9E0704-MSD2)		Source: Y905090-03			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	1070	50.0	mg/kg	1000	ND	107	70-130	2.46	35	
Diesel (C10-C28)	1060	50.0	"	1000	ND	106	70-130	2.74	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	5.60	102	70-130	0.634	35	
Surrogate: o-Terphenyl	53.5		"	50.0		107	50-150			

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Dan Coloccia
Project Number: [none]
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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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Classical Chemistry Parameters - 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 B9E0705 - NO PREP

Duplicate (B9E0705-DUP1)		Source: Y905069-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
pH	6.93		pH Units		7.17			3.40	25	

Batch B9E0706 - NO PREP

Blank (B9E0706-BLK1)		Prepared: 05/07/2019 Analyzed: 05/07/2019								
Specific Conductance (EC)	0.00320	0.00500	mmhos/cm							
Duplicate (B9E0706-DUP1)		Source: Y905069-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Specific Conductance (EC)	1.97	0.00505	mmhos/cm		1.62			19.8	25	

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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.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Wenzel 1

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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Jen Pellegrini For Noelle Doyle Mathis, President