



July 17, 2019

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - CPR - Erie Champlin B Unit 2

Project Number - [none]

Attached are your analytical results for CPR - Erie Champlin B Unit 2 received by Origins Laboratory, Inc. July 11, 2019. This project is associated with Origins project number Y907162-01.

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: CPR - Erie Champlin B Unit 2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@4-5'	Y907162-01	Soil	July 10, 2019 17:00	07/11/2019 10:40

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: CPR - Erie Champlin B Unit 2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907162

Client: Eagle
 Client Project ID: Erie Champlin B Unit 2

Checklist Completed by: JG

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

Date/time completed: 7/11/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.1 °C _____ °C _____ °C (Describe) _____ °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"/>			
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 volatile 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 subcooled analytes 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 Na ₂ CO ₃ /NaOH, ZnAc ₂ /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) [Signature] Date/Time Reviewed 7/12/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: CPR - Erie Champlin B Unit 2

SB-01@4-5'

7/10/2019 5:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907162-01 (Soil)

BTEX by EPA 8260D

Benzene	ND	0.050	mg/kg	25	B9G1104	KDK	07/11/2019	07/11/2019	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	0.65		me/L	1	[none]		07/12/2019	07/16/2019	
Magnesium	1.05		"	"	"		"	"	
Sodium	5.33		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	9.02		pH Units	1	B9G1109	OLAB	07/11/2019	07/11/2019	
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SAR by 20B Saturated Paste

SAR	5.78			1	[none]		07/12/2019	07/16/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.118	0.00504	mmhos/cm	1	B9G1110	OLAB	07/11/2019	07/11/2019	
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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: CPR - Erie Champlin B Unit 2

SB-01@4-5'

7/10/2019 5:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907162-01 (Soil)

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9G1105	KDK	07/11/2019	07/12/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 78.8 % 50-150 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: CPR - Erie Champlin B Unit 2

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 B9G1104 - EPA 5030 (soil)

Blank (B9G1104-BLK1)

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>97.1</i>	<i>70-130</i>			

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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 B9G1104 - EPA 5030 (soil)

LCS (B9G1104-BS1)

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	0.088	0.002	mg/kg	0.100		88.2	70-130			
Toluene	0.091	0.002	"	0.100		91.3	70-130			
Ethylbenzene	0.089	0.002	"	0.100		88.9	70-130			
m,p-Xylene	0.178	0.004	"	0.200		89.1	70-130			
o-Xylene	0.091	0.002	"	0.100		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Project: CPR - Erie Champlin B Unit 2

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 B9G1104 - EPA 5030 (soil)

Matrix Spike (B9G1104-MS1)	Source: Y907159-01			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Benzene	2.05	0.050	mg/kg	2.50	ND	82.1	70-130			
Toluene	2.07	0.050	"	2.50	ND	83.0	70-130			
Ethylbenzene	2.02	0.050	"	2.50	ND	80.7	70-130			
m,p-Xylene	4.09	0.100	"	5.00	ND	81.7	70-130			
o-Xylene	2.15	0.050	"	2.50	ND	85.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	3.1		"	3.12		99.3	70-130			
Surrogate: Toluene-d8	3.1		"	3.12		100	70-130			
Surrogate: 4-Bromofluorobenzene	3.1		"	3.12		100	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 B9G1104 - EPA 5030 (soil)

Matrix Spike Dup (B9G1104-MSD1)	Source: Y907159-01			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Benzene	2.29	0.050	mg/kg	2.50	ND	91.5	70-130	10.9	20	
Toluene	2.28	0.050	"	2.50	ND	91.2	70-130	9.46	20	
Ethylbenzene	2.28	0.050	"	2.50	ND	91.1	70-130	12.2	20	
m,p-Xylene	4.60	0.100	"	5.00	ND	92.0	70-130	11.9	20	
o-Xylene	2.34	0.050	"	2.50	ND	93.5	70-130	8.47	20	
Surrogate: 1,2-Dichloroethane-d4	3.1		"	3.12		98.1	70-130			
Surrogate: Toluene-d8	3.1		"	3.12		100	70-130			
Surrogate: 4-Bromofluorobenzene	3.2		"	3.12		101	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 B9G1105 - EPA 3580										
Blank (B9G1105-BLK1)										
					Prepared: 07/11/2019 Analyzed: 07/11/2019					
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	33.9		"	50.0		67.7	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
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Batch B9G1105 - EPA 3580

LCS (B9G1105-BS1)

Prepared: 07/11/2019 Analyzed: 07/11/2019

Gasoline (C6-C10)	956	50.0	mg/kg	1000		95.6	70-130			
Diesel (C10-C28)	976	50.0	"	1000		97.6	70-130			
Residual Range Organics (C28-C40)	939	200	"	1000		93.9	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: CPR - Erie Champlin B Unit 2

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 B9G1105 - EPA 3580

Matrix Spike (B9G1105-MS1)	Source: Y907159-01			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Gasoline (C6-C10)	874	50.0	mg/kg	1000	27.0	84.7	70-130			
Diesel (C10-C28)	918	50.0	"	1000	ND	91.8	70-130			
Residual Range Organics (C28-C40)	853	200	"	1000	ND	85.3	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	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 B9G1105 - EPA 3580

Matrix Spike Dup (B9G1105-MSD1)	Source: Y907159-01			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Gasoline (C6-C10)	857	50.0	mg/kg	1000	27.0	83.0	70-130	1.95	35	
Diesel (C10-C28)	868	50.0	"	1000	ND	86.8	70-130	5.58	35	
Residual Range Organics (C28-C40)	792	200	"	1000	ND	79.2	70-130	7.41	35	
Surrogate: o-Terphenyl	40.6		"	50.0		81.1	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.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President