



July 12, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Eldridge 4-23

Project Number - [none]

Attached are your analytical results for Eldridge 4-23 received by Origins Laboratory, Inc. July 06, 2017. This project is associated with Origins project number Y707060-01.

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

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y707060-01	Water	July 6, 2017 12:30	07/06/2017 16:00
MW-02	Y707060-02	Water	July 6, 2017 12:40	07/06/2017 16:00
MW-03	Y707060-03	Water	July 6, 2017 12:50	07/06/2017 16:00
MW-04	Y707060-04	Water	July 6, 2017 13:00	07/06/2017 16:00
MW-05	Y707060-05	Water	July 6, 2017 13:10	07/06/2017 16:00
MW-06	Y707060-06	Water	July 6, 2017 13:20	07/06/2017 16:00
MW-07	Y707060-07	Water	July 6, 2017 13:30	07/06/2017 16:00
MW-08	Y707060-08	Water	July 6, 2017 13:40	07/06/2017 16:00

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

ORIGINS
LABORATORY, INC

www.originslaboratory.com

page 1 of 1

107066

Client: EAGLE ENV. CONSULTING
Address: 4101 INCA ST.
DENVER, CO 80211
Telephone Number: 303-433-0479
Email Address: MCE@EAGLE-ENVIRO.COM

Project Manager: MARTIN ECKERT III
Project Name: ELDRIDGE 4-23
Project Number: -
Samples Collected By: SV/LK

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa #	Other		
MW-01	7/6/17	1230	3	✓			✓				BTEX	1
MW-02		1240	1	✓								2
MW-03		1250	1	✓								3
MW-04		1300	1	✓								4
MW-05		1310	1	✓								5
MW-06		1320	1	✓								6
MW-07		1330	1	✓								7
MW-08		1340	1	✓								8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
[Signature]	7/6/17	1600	[Signature]	7-6-17	1600	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed

Temp Received- 4.1°C

Origins Laboratory, Inc.

Jefe Pellegrini

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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1707060

Client: Eagle Env.

Client Project ID: Eldridge 4-23

Checklist Completed by: JD

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

Date/time completed: 7-6-12 1207

Airbill #: NA

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

Cooler Number/Temperature: 1 4.1 °C / 1 °C / 1 °C / 1 °C

Thermometer ID: 1004

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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) JD

Date/Time Reviewed 7/7/12

Origins Laboratory, Inc.

Jen Pellegrini

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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

MW-01
7/6/2017 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707060-01 (Water)

BTEX by EPA 8260C

Benzene	16600	100	ug/L	100	B7G1102	07/11/2017	07/12/2017
Toluene	4740	100	"	"	"	"	"
Ethylbenzene	321	4.00	"	4	"	"	07/11/2017
Xylenes, total	3810	100	"	100	"	"	07/12/2017

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"	07/11/2017
Surrogate: Toluene-d8	103 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

MW-02

7/6/2017 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y707060-02 (Water)

BTEX by EPA 8260C

Benzene	237	4.00	ug/L	4	B7G1102	07/11/2017	07/12/2017	
Toluene	97.0	4.00	"	"	"	"	"	
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	338	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121			"	"	07/11/2017
Surrogate: Toluene-d8	107 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

MW-03
7/6/2017 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707060-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7G1102	07/11/2017	07/11/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	1.65	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

MW-04
7/6/2017 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707060-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7G1102	07/11/2017	07/11/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

MW-05
7/6/2017 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707060-05 (Water)

BTEX by EPA 8260C

Benzene	4.10	1.00	ug/L	1	B7G1102	07/11/2017	07/11/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	3.00	1.00	"	"	"	"	"	
Xylenes, total	211	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"
Surrogate: Toluene-d8	111 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

MW-06
7/6/2017 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707060-06 (Water)

BTEX by EPA 8260C

Benzene	19600	100	ug/L	100	B7G1102	07/11/2017	07/12/2017
Toluene	362	4.00	"	4	"	"	07/11/2017
Ethylbenzene	4750	100	"	100	"	"	07/12/2017
Xylenes, total	23500	100	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	87.2 %	84-121			"	"	07/11/2017
Surrogate: Toluene-d8	104 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

MW-07
7/6/2017 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707060-07 (Water)

BTEX by EPA 8260C

Benzene	13000	100	ug/L	100	B7G1102	07/11/2017	07/12/2017
Toluene	2330	100	"	"	"	"	"
Ethylbenzene	17000	100	"	"	"	"	07/11/2017
Xylenes, total	46400	100	"	"	"	"	07/12/2017
Surrogate: 1,2-Dichloroethane-d4	87.8 %	84-121			"	"	"
Surrogate: Toluene-d8	113 %	85-115			"	"	07/11/2017
Surrogate: 4-Bromofluorobenzene	97.8 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

MW-08
7/6/2017 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707060-08 (Water)

BTEX by EPA 8260C

Benzene	10000	100	ug/L	100	B7G1102	07/11/2017	07/12/2017
Toluene	1200	100	"	"	"	"	"
Ethylbenzene	253	100	"	"	"	"	"
Xylenes, total	2140	100	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	97.3 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	84-114			"	"	07/11/2017

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4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

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 B7G1102 - EPA 5030B (Water)

Blank (B7G1102-BLK1)

Prepared: 07/11/2017 Analyzed: 07/11/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	103		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.2		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

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 B7G1102 - EPA 5030B (Water)

LCS (B7G1102-BS1)

Prepared: 07/11/2017 Analyzed: 07/11/2017

Benzene	46.4	1.00	ug/L	50.0		92.8	73.3-129
Toluene	46.0	1.00	"	50.0		92.1	76.2-123
Ethylbenzene	41.8	1.00	"	50.0		83.6	73.6-130
m,p-Xylene	90.7	2.00	"	100		90.7	76.1-126
o-Xylene	45.2	1.00	"	50.0		90.3	76.6-124
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	84-114

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Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

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 B7G1102 - EPA 5030B (Water)

Matrix Spike (B7G1102-MS1)		Source: Y707053-01			Prepared: 07/11/2017 Analyzed: 07/11/2017					
Benzene	89.7	1.00	ug/L	50.0	54.8	69.8	74-130			QM-07
Toluene	52.7	1.00	"	50.0	ND	105	73-131			
Ethylbenzene	307	1.00	"	50.0	362	NR	76-132			QM-07
m,p-Xylene	111	2.00	"	100	5.74	105	69-139			
o-Xylene	50.8	1.00	"	50.0	ND	102	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

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 B7G1102 - EPA 5030B (Water)

Matrix Spike Dup (B7G1102-MSD1)		Source: Y707053-01			Prepared: 07/11/2017 Analyzed: 07/11/2017					
Benzene	92.1	1.00	ug/L	50.0	54.8	74.6	74-130	2.67	20	
Toluene	55.4	1.00	"	50.0	ND	111	73-131	4.90	20	
Ethylbenzene	321	1.00	"	50.0	362	NR	76-132	4.58	20	QM-07
m,p-Xylene	115	2.00	"	100	5.74	109	69-139	3.45	20	
o-Xylene	52.4	1.00	"	50.0	ND	105	74-131	3.12	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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