



July 24, 2018

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

Project Name - SRC - Ikenouye West Pit

Project Number - [none]

Attached are your analytical results for SRC - Ikenouye West Pit received by Origins Laboratory, Inc. July 18, 2018. This project is associated with Origins project number Y807244-01.

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: SRC - Ikenouye West Pit

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y807244-01	Water	July 18, 2018 13:30	07/18/2018 14:50
MW-02	Y807244-02	Water	July 18, 2018 12:25	07/18/2018 14:50
MW-03	Y807244-03	Water	July 18, 2018 12:45	07/18/2018 14:50
MW-04	Y807244-04	Water	July 18, 2018 12:55	07/18/2018 14:50
MW-05	Y807244-05	Water	July 18, 2018 13:10	07/18/2018 14:50
MW-06	Y807244-06	Water	July 18, 2018 13:20	07/18/2018 14:50
MW-07	Y807244-07	Water	July 18, 2018 13:40	07/18/2018 14:50
MW-08	Y807244-08	Water	July 18, 2018 12:35	07/18/2018 14:50

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

Dan Coloccia
Project Number: [none]
Project: SRC - Ikenouye West Pit

www.originslaboratory.com

1807244

page 1 of 1

ORIGINS
LABORATORY, INC

Client: Engh
Address: 4101 Inca Street
Denver CO, 80211
Telephone Number: 303 433 0479
Email Address: dcoloccia@Engh-Enviro.com

Project Manager: Dan Coloccia
Project Name: SRC Ikenouye West
Project Number: SRC
Samples Collected By: J. Garmowski

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summng Container #			Other
MW-01	7-18-18	1330	3	X				X					
MW-02		1225											
MW-03		1245											
MW-04		1255											
MW-05		1310											
MW-06		1320											
MW-07		1340											
MW-08		1235											
<div> <div>Relinquished By: <u>Dan Coloccia</u></div> <div>Relinquished By: <u>J. Garmowski</u></div> </div>													
				Date: <u>7-18-18</u>	Time: <u>1450</u>	Received By: <u>[Signature]</u>		Date: <u>7/18/18</u>	Time: <u>1450</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>			

Date Results Needed

Temp Received: 64.4

Origins Laboratory, Inc.

Jefe Pellegrini

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Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y807244

Client: Eagle

Client Project ID: SRC - Ikenouye West

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 7/19/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.4 °C / °C / °C / °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 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) [Signature]

Date/Time Reviewed 7/20/18

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: SRC - Ikenouye West Pit

MW-01

7/18/2018 1:30:00PM

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

Y807244-01 (Water)

BTEX by EPA 8260C

Benzene	2.50	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-02

7/18/2018 12:25:00PM

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

Y807244-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.3 %	84-121	"	"	"
Surrogate: Toluene-d8	104 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	84-114	"	"	"

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Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-03

7/18/2018 12:45:00PM

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

Y807244-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

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Denver CO 80211

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Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-04

7/18/2018 12:55:00PM

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

Y807244-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121			"	"	"
Surrogate: Toluene-d8	96.4 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"

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Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-05

7/18/2018 1:10:00PM

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

Y807244-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-06

7/18/2018 1:20:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Y807244-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

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4101 Inca Street

Denver CO 80211

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Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-07

7/18/2018 1:40:00PM

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

Y807244-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-08

7/18/2018 12:35:00PM

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

Y807244-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G1905	07/19/2018	07/20/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

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 B8G1905 - EPA 5030B (Water)

Blank (B8G1905-BLK1)

Prepared: 07/19/2018 Analyzed: 07/19/2018

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	63		"	62.5	102		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.8		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.3		84-114			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

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 B8G1905 - EPA 5030B (Water)

Blank (B8G1905-BLK2)

Prepared: 07/19/2018 Analyzed: 07/20/2018

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	62		"	62.5		98.7	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	84-114			

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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

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 B8G1905 - EPA 5030B (Water)

LCS (B8G1905-BS1)

Prepared: 07/19/2018 Analyzed: 07/19/2018

Benzene	52.3	1.00	ug/L	50.0		105	73.3-129			
Toluene	52.8	1.00	"	50.0		106	76.2-123			
Ethylbenzene	54.0	1.00	"	50.0		108	73.6-130			
m,p-Xylene	108	2.00	"	100		108	76.1-126			
o-Xylene	53.2	1.00	"	50.0		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Project Number: [none]

Project: SRC - Ikenouye West Pit

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 B8G1905 - EPA 5030B (Water)

LCS (B8G1905-BS2)

Prepared: 07/19/2018 Analyzed: 07/20/2018

Benzene	51.3	1.00	ug/L	50.0	103	73.3-129
Toluene	50.0	1.00	"	50.0	100	76.2-123
Ethylbenzene	49.3	1.00	"	50.0	98.7	73.6-130
m,p-Xylene	99.1	2.00	"	100	99.1	76.1-126
o-Xylene	52.4	1.00	"	50.0	105	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.3	84-121
Surrogate: Toluene-d8	62		"	62.5	98.8	85-115
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102	84-114

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Dan Coloccia

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Project: SRC - Ikenouye West Pit

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 B8G1905 - EPA 5030B (Water)

Matrix Spike (B8G1905-MS1)		Source: Y807231-02			Prepared: 07/19/2018 Analyzed: 07/20/2018					
Benzene	60.5	1.00	ug/L	50.0	0.330	120	74-130			
Toluene	57.4	1.00	"	50.0	ND	115	73-131			
Ethylbenzene	57.7	1.00	"	50.0	0.090	115	76-132			
m,p-Xylene	114	2.00	"	100	0.330	114	69-139			
o-Xylene	55.4	1.00	"	50.0	0.110	111	74-131			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.5	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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Project Number: [none]

Project: SRC - Ikenouye West Pit

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 B8G1905 - EPA 5030B (Water)

Matrix Spike (B8G1905-MS2)		Source: Y807244-02			Prepared: 07/19/2018 Analyzed: 07/20/2018					
Benzene	54.6	1.00	ug/L	50.0	ND	109	74-130			
Toluene	51.5	1.00	"	50.0	ND	103	73-131			
Ethylbenzene	51.3	1.00	"	50.0	ND	103	76-132			
m,p-Xylene	102	2.00	"	100	0.200	102	69-139			
o-Xylene	50.3	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.3	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.0	85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	84-114			

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Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

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 B8G1905 - EPA 5030B (Water)

Matrix Spike Dup (B8G1905-MSD1)		Source: Y807231-02			Prepared: 07/19/2018 Analyzed: 07/20/2018					
Benzene	57.0	1.00	ug/L	50.0	0.330	113	74-130	6.11	20	
Toluene	58.4	1.00	"	50.0	ND	117	73-131	1.83	20	
Ethylbenzene	54.2	1.00	"	50.0	0.090	108	76-132	6.22	20	
m,p-Xylene	109	2.00	"	100	0.330	109	69-139	4.37	20	
o-Xylene	56.0	1.00	"	50.0	0.110	112	74-131	1.11	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.4	84-121			
Surrogate: Toluene-d8	70		"	62.5		112	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

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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 B8G1905 - EPA 5030B (Water)

Matrix Spike Dup (B8G1905-MSD2)		Source: Y807244-02			Prepared: 07/19/2018 Analyzed: 07/20/2018					
Benzene	56.2	1.00	ug/L	50.0	ND	112	74-130	3.03	20	QR-02
Toluene	63.6	1.00	"	50.0	ND	127	73-131	21.0	20	
Ethylbenzene	53.3	1.00	"	50.0	ND	107	76-132	3.82	20	
m,p-Xylene	107	2.00	"	100	0.200	106	69-139	4.62	20	
o-Xylene	53.4	1.00	"	50.0	ND	107	74-131	5.96	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.0	84-121			
Surrogate: Toluene-d8	71		"	62.5		114	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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