



April 10, 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. April 03, 2018. This project is associated with Origins project number Y804042-01.

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	Y804042-01	Water	April 2, 2018 15:00	04/03/2018 09:20
MW-02	Y804042-02	Water	April 2, 2018 14:10	04/03/2018 09:20
MW-03	Y804042-03	Water	April 2, 2018 15:10	04/03/2018 09:20
MW-04	Y804042-04	Water	April 2, 2018 15:25	04/03/2018 09:20
MW-05	Y804042-05	Water	April 2, 2018 15:40	04/03/2018 09:20
MW-06	Y804042-06	Water	April 2, 2018 14:50	04/03/2018 09:20
MW-07	Y804042-07	Water	April 2, 2018 14:40	04/03/2018 09:20
MW-08	Y804042-08	Water	April 2, 2018 14:25	04/03/2018 09:20

Origins Laboratory, Inc.



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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

page 1 of 1

Client: Eagle
Address: 4101 Inca Street
Denver CO 80211
Telephone Number: 303 433 0479
Email Address: dcoloccia@eagleenv.com

Project Manager: Daniel Coloccia
Project Name: SRC Ikenouye West
Project Number: JG
Samples Collected By: JG

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ. #		
MW-01	4-2-18	1500	3	X				X			576X	1
MW-02		1410										2
MW-03		1510										3
MW-04		1525										4
MW-05		1540										5
MW-06		1450										6
MW-07		1440										7
MW-08		1425										8
												9
												10

Relinquished By: [Signature]
Relinquished By: [Signature]

3 Date: 4-2-2018
JG Date: JG

Time: 920
Time: 920

Received By: [Signature]
Received By: [Signature]

Date: 4/3/18
Date: 4/3/18

Time: 920
Time: 920

Turnaround Time:
Same Day ☐ 24 Hr ☐
48 Hr ☐ 72 Hr ☐
Standard ☒

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

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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: Y864042

Client: Eagle

Client Project ID: SRC-Ikenouye West Pit

Checklist Completed by: JP

Shipped Via: HD

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

Date/time completed: 4/3/18

Airbill #: 01A

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

Cooler Number/Temperature: 1 8.1 °C 1 °C 1 °C 1 °C (Describe)

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 checked="" type="checkbox"/>		<u>Sampled Same Day</u>
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 (> 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 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: JP (Project Manager)

Date/Time Reviewed: 4/4/18

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

4/2/2018 3:00:00PM

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

Y804042-01 (Water)

BTEX by EPA 8260C

Benzene	5.01	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	
Toluene	4.71	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	2.23	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	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
4/2/2018 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804042-02 (Water)

BTEX by EPA 8260C

Benzene	1.10	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114			"	"	"	

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Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-03

4/2/2018 3:10:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Y804042-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	98.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"

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Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-04

4/2/2018 3:25:00PM

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

Y804042-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114			"	"	"	

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Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-05

4/2/2018 3:40:00PM

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

Y804042-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114			"	"	"	

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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-06

4/2/2018 2:50:00PM

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

Y804042-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

106 %

84-121

"

"

"

Surrogate: Toluene-d8

98.0 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

98.0 %

84-114

"

"

"

Origins Laboratory, Inc.



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4101 Inca Street
Denver CO 80211

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

MW-07
4/2/2018 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804042-07 (Water)

BTEX by EPA 8260C

Benzene	187	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"
Surrogate: Toluene-d8	97.3 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"

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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

MW-08

4/2/2018 2:25:00PM

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

Y804042-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8D0903	04/09/2018	04/10/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

106 %

84-121

"

"

"

Surrogate: Toluene-d8

98.8 %

85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

98.7 %

84-114

"

"

"

Origins Laboratory, Inc.



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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 B8D0903 - EPA 5030B (Water)

Blank (B8D0903-BLK1)

Prepared: 04/09/2018 Analyzed: 04/09/2018

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	64		"	62.5	103		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.7		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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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 B8D0903 - EPA 5030B (Water)

Blank (B8D0903-BLK2)

Prepared: 04/09/2018 Analyzed: 04/09/2018

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	65		"	62.5	105		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.7		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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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 B8D0903 - EPA 5030B (Water)

LCS (B8D0903-BS1)

Prepared: 04/09/2018 Analyzed: 04/09/2018

Benzene	42.1	1.00	ug/L	50.0		84.3	73.3-129			
Toluene	42.7	1.00	"	50.0		85.4	76.2-123			
Ethylbenzene	43.2	1.00	"	50.0		86.3	73.6-130			
m,p-Xylene	84.2	2.00	"	100		84.2	76.1-126			
o-Xylene	44.1	1.00	"	50.0		88.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	84-114			

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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 B8D0903 - EPA 5030B (Water)

LCS (B8D0903-BS2)

Prepared: 04/09/2018 Analyzed: 04/09/2018

Benzene	42.8	1.00	ug/L	50.0		85.6	73.3-129			
Toluene	42.6	1.00	"	50.0		85.1	76.2-123			
Ethylbenzene	42.9	1.00	"	50.0		85.7	73.6-130			
m,p-Xylene	84.2	2.00	"	100		84.2	76.1-126			
o-Xylene	43.9	1.00	"	50.0		87.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	84-114			

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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 B8D0903 - EPA 5030B (Water)

Matrix Spike (B8D0903-MS1)		Source: Y804063-01			Prepared: 04/09/2018 Analyzed: 04/09/2018					
Benzene	47.9	1.00	ug/L	50.0	ND	95.8	74-130			
Toluene	47.5	1.00	"	50.0	0.120	94.8	73-131			
Ethylbenzene	49.7	1.00	"	50.0	0.110	99.2	76-132			
m,p-Xylene	95.5	2.00	"	100	0.340	95.2	69-139			
o-Xylene	47.7	1.00	"	50.0	ND	95.4	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	84-114			

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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 B8D0903 - EPA 5030B (Water)

Matrix Spike (B8D0903-MS2)		Source: Y804063-02			Prepared: 04/09/2018 Analyzed: 04/10/2018					
Benzene	44.4	1.00	ug/L	50.0	ND	88.8	74-130			
Toluene	43.3	1.00	"	50.0	ND	86.5	73-131			
Ethylbenzene	45.6	1.00	"	50.0	ND	91.3	76-132			
m,p-Xylene	88.2	2.00	"	100	ND	88.2	69-139			
o-Xylene	43.9	1.00	"	50.0	0.140	87.6	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	84-114			

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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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Batch B8D0903 - EPA 5030B (Water)

Matrix Spike Dup (B8D0903-MSD1)		Source: Y804063-01			Prepared: 04/09/2018 Analyzed: 04/09/2018					
Benzene	61.0	1.00	ug/L	50.0	ND	122	74-130	24.0	20	QR-02
Toluene	61.9	1.00	"	50.0	0.120	124	73-131	26.3	20	QR-02
Ethylbenzene	63.7	1.00	"	50.0	0.110	127	76-132	24.6	20	QR-02
m,p-Xylene	123	2.00	"	100	0.340	123	69-139	25.4	20	QR-02
o-Xylene	62.4	1.00	"	50.0	ND	125	74-131	26.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	84-114			

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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 B8D0903 - EPA 5030B (Water)

Matrix Spike Dup (B8D0903-MSD2)		Source: Y804063-02			Prepared: 04/09/2018 Analyzed: 04/09/2018					
Benzene	38.5	1.00	ug/L	50.0	ND	76.9	74-130	14.3	20	
Toluene	38.5	1.00	"	50.0	ND	77.0	73-131	11.6	20	
Ethylbenzene	39.9	1.00	"	50.0	ND	79.8	76-132	13.4	20	
m,p-Xylene	77.3	2.00	"	100	ND	77.3	69-139	13.2	20	
o-Xylene	39.3	1.00	"	50.0	0.140	78.3	74-131	11.1	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.0	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	84-114			

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Dan Coloccia

Project Number: [none]

Project: SRC - Ikenouye West Pit

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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