

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 01, 2020

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Work Order #2006296

Enclosed are the results of analyses for samples received by Summit Scientific on 06/24/20 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/01/20 12:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N WALL 3FT	2006296-01	Soil	06/24/20 00:00	06/24/20 17:00
N WALL 4FT	2006296-02	Soil	06/24/20 00:00	06/24/20 17:00
S WALL 4FT	2006296-03	Soil	06/24/20 00:00	06/24/20 17:00
E WALL 4FT	2006296-04	Soil	06/24/20 00:00	06/24/20 17:00
W WALL 4FT	2006296-05	Soil	06/24/20 00:00	06/24/20 17:00
W1	2006296-06	Water	06/24/20 00:00	06/24/20 17:00
TP-EAST 4FT	2006296-07	Soil	06/24/20 00:00	06/24/20 17:00

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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.

2006296

Summit Scientific

4653 Table Mountain Drive ♦ Golden, Colorado 80403
 303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henchan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Howard

Phone: 303-956-8714

Project Name: CPC Hoshiko 35-1, Hoshiko B 35-14

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC		pH	
1	N WALL 3FT	6/24/20		1			X			X								X	X	X	STANDARD TAT
2	N WALL 4FT			1										X	X	X					
3	S WALL 4FT			1																	
4	E WALL 4FT			1																	
5	W WALL 4FT			1																	
6	FW 1			2				X													
7	TP-EAST 4FT			1					X					X	X	X					HOLD
8																					
9																					
10																					

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>6/24/20 7:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>06/24/2020 7:00</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: <u>3.6</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2006296

Client: FREMONT ENVIRONMETAL Client Project ID: CPC HOSHIKO 35-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: HOSHIKO B35-14

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	3.6
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?	✓			
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

RZ
Custodian Printed Name or Initials


Signature of Custodian

6/24/20
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/01/20 12:20

N WALL 3FT
2006296-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006390	06/29/20	06/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		78.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		116 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	933	11.6	mg/kg dry	1	2006345	06/24/20	06/24/20	EPA 6020B	
Magnesium	666	5.78	"	"	"	"	"	"	
Sodium	82.5	5.78	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.504	0.100	units	1	2006419	06/30/20	06/30/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

N WALL 3FT
2006296-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.6	%	1	2006348	06/25/20	06/25/20	Calculation
pH	8.28	pH Units	"	2006349	06/25/20	06/25/20	EPA 9045D

Specific Conductance by EPA Method 120.1

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.466	0.0100	mmhos/cm	1	2006350	06/25/20	06/25/20	EPA 120.1	

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Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

N WALL 4FT
2006296-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006340	06/24/20	06/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		80.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006338	06/24/20	06/24/20	EPA 8015M	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

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 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

S WALL 4FT
2006296-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006340	06/24/20	06/24/20	EPA 8260B	
Toluene	0.0062	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0080	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.079	0.010	"	"	"	"	"	"	
Naphthalene	0.017	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	20	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006338	06/24/20	06/24/20	EPA 8015M	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

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Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

E WALL 4FT
2006296-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0054	0.0020	mg/kg	1	2006340	06/24/20	06/24/20	EPA 8260B	
Toluene	0.0056	0.0050	"	"	"	"	"	"	
Ethylbenzene	2.9	0.050	"	10	"	"	"	"	
Xylenes (total)	12	0.10	"	"	"	"	"	"	
Naphthalene	0.44	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	580	5.0	"	10	"	"	"	"	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		226 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	260	50	mg/kg	1	2006338	06/24/20	06/24/20	EPA 8015M	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

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 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

W WALL 4FT
2006296-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006340	06/24/20	06/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0077	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.082	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.5	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		86.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006338	06/24/20	06/24/20	EPA 8015M	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

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Fremont Environmental
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 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

W1

2006296-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	13	1.0		ug/l	1	2006316	06/24/20	06/24/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	130	1.0		"	"	"	"	"	"	
Xylenes (total)	490	2.0		"	"	"	"	"	"	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

TP-EAST 4FT
2006296-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2006390	06/29/20	06/30/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.12	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Naphthalene	0.11	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	28	0.50		"	"	"	"	"	"	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		82.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		343 %		21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	91	50		mg/kg	1	2006389	06/29/20	06/29/20	EPA 8015M	

Date Sampled: **06/24/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

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Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/01/20 12:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limits	RPD	Limit		

Batch 2006316 - EPA 5030 Water MS

Blank (2006316-BLK1)

Prepared: 06/23/20 Analyzed: 06/24/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		99.7		23-173		
Surrogate: Toluene-d8	13.7		"	13.3		103		20-170		
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.3		21-167		

LCS (2006316-BS1)

Prepared: 06/23/20 Analyzed: 06/24/20

Benzene	43.4	1.0	ug/l	33.3		130		51-132		
Toluene	43.3	1.0	"	33.3		130		51-138		
Ethylbenzene	46.9	1.0	"	33.3		141		58-146		
m,p-Xylene	86.4	2.0	"	66.7		130		57-144		
o-Xylene	44.8	1.0	"	33.3		134		53-146		
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		99.8		23-173		
Surrogate: Toluene-d8	14.3		"	13.3		107		20-170		
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9		21-167		

Matrix Spike (2006316-MS1)

Source: 2006244-41

Prepared: 06/23/20 Analyzed: 06/24/20

Benzene	64.5	1.0	ug/l	33.3	33.5	93.0		34-141		
Toluene	44.6	1.0	"	33.3	ND	134		27-151		
Ethylbenzene	50.1	1.0	"	33.3	ND	150		29-160		
m,p-Xylene	91.0	2.0	"	66.7	ND	136		20-166		
o-Xylene	47.0	1.0	"	33.3	ND	141		33-159		
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.4		23-173		
Surrogate: Toluene-d8	14.1		"	13.3		106		20-170		
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.3		21-167		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/01/20 12:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2006316 - EPA 5030 Water MS

Matrix Spike Dup (2006316-MSD1)

Source: 2006244-41

Prepared: 06/23/20 Analyzed: 06/24/20

Benzene	60.2	1.0	ug/l	33.3	33.5	80.2	34-141	6.86	30	
Toluene	42.9	1.0	"	33.3	ND	129	27-151	3.75	30	
Ethylbenzene	47.7	1.0	"	33.3	ND	143	29-160	5.03	30	
m,p-Xylene	86.8	2.0	"	66.7	ND	130	20-166	4.71	30	
o-Xylene	45.0	1.0	"	33.3	ND	135	33-159	4.31	30	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.1	23-173			
Surrogate: Toluene-d8	14.1		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.3	21-167			

Batch 2006340 - EPA 5030 Soil MS

Blank (2006340-BLK1)

Prepared & Analyzed: 06/24/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.0	23-173			
Surrogate: Toluene-d8	0.0336		"	0.0400		84.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	21-167			

LCS (2006340-BS1)

Prepared & Analyzed: 06/24/20

Benzene	0.0813	0.0020	mg/kg	0.100		81.3	70-130			
Toluene	0.0727	0.0050	"	0.100		72.7	70-130			
Ethylbenzene	0.0836	0.0050	"	0.100		83.6	70-130			
m,p-Xylene	0.157	0.010	"	0.200		78.6	70-130			
o-Xylene	0.0817	0.0050	"	0.100		81.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0327		"	0.0400		81.8	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		105	21-167			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/01/20 12:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2006340 - EPA 5030 Soil MS

Matrix Spike (2006340-MS1)

Source: 2006253-01

Prepared & Analyzed: 06/24/20

Benzene	0.0810	0.0020	mg/kg	0.100	ND	81.0	70-130			
Toluene	0.0729	0.0050	"	0.100	ND	72.9	70-130			
Ethylbenzene	0.0780	0.0050	"	0.100	ND	78.0	70-130			
m,p-Xylene	0.143	0.010	"	0.200	ND	71.3	70-130			
o-Xylene	0.0772	0.0050	"	0.100	ND	77.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0342		"	0.0400		85.6	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	21-167			

Matrix Spike Dup (2006340-MSD1)

Source: 2006253-01

Prepared & Analyzed: 06/24/20

Benzene	0.0768	0.0020	mg/kg	0.100	ND	76.8	70-130	5.36	30	
Toluene	0.0733	0.0050	"	0.100	ND	73.3	70-130	0.616	30	
Ethylbenzene	0.0781	0.0050	"	0.100	ND	78.1	70-130	0.115	30	
m,p-Xylene	0.141	0.010	"	0.200	ND	70.5	70-130	1.14	30	
o-Xylene	0.0750	0.0050	"	0.100	ND	75.0	70-130	2.84	30	
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		82.0	23-173			
Surrogate: Toluene-d8	0.0424		"	0.0400		106	20-170			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	21-167			

Batch 2006390 - EPA 5030 Soil MS

Blank (2006390-BLK1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	ND	0.0020	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0270		"	0.0400		67.4	23-173			
Surrogate: 1,2-Dichloroethane-d4	0.0270		"	0.0400		67.4	23-173			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	20-170			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	21-167			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	21-167			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/01/20 12:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2006390 - EPA 5030 Soil MS

LCS (2006390-BS1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.0850	0.0020	mg/kg	0.100		85.0	70-130			
Benzene	0.0850	0.0020	"	0.100		85.0	70-130			
Toluene	0.0955	0.0050	"	0.100		95.5	70-130			
Toluene	0.0955	0.0050	"	0.100		95.5	70-130			
Ethylbenzene	0.0891	0.0050	"	0.100		89.1	70-130			
Ethylbenzene	0.0891	0.0050	"	0.100		89.1	70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.4	70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.4	70-130			
o-Xylene	0.0868	0.0050	"	0.100		86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0238		"	0.0400		59.6	23-173			
Surrogate: 1,2-Dichloroethane-d4	0.0238		"	0.0400		59.6	23-173			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.7	20-170			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.6	21-167			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.6	21-167			

Matrix Spike (2006390-MS1)

Source: 2006294-01

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.116	0.0020	mg/kg	0.100	0.0117	104	70-130			
Benzene	0.116	0.0020	"	0.100	0.0117	104	70-130			
Toluene	0.642	0.0050	"	0.100	0.648	NR	70-130			QM-07
Toluene	0.642	0.0050	"	0.100	3000000	NR	70-130			QM-07
Ethylbenzene	0.751	0.0050	"	0.100	3000000	NR	70-130			QM-07
Ethylbenzene	0.751	0.0050	"	0.100	0.707	44.3	70-130			QM-07
m,p-Xylene	3.83	0.010	"	0.200	3000000	NR	70-130			QM-07
m,p-Xylene	3.83	0.010	"	0.200	3000000	NR	70-130			QM-07
o-Xylene	1.96	0.0050	"	0.100	3000000	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0877		"	0.0400		219	23-173			S-02
Surrogate: 1,2-Dichloroethane-d4	0.0877		"	0.0400		219	23-173			S-02
Surrogate: Toluene-d8	0.0467		"	0.0400		117	20-170			
Surrogate: Toluene-d8	0.0467		"	0.0400		117	20-170			
Surrogate: 4-Bromofluorobenzene	0.177		"	0.0400		443	21-167			S-02
Surrogate: 4-Bromofluorobenzene	0.177		"	0.0400		443	21-167			S-02

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2006390 - EPA 5030 Soil MS

Matrix Spike Dup (2006390-MSD1)	Source: 2006294-01			Prepared: 06/29/20 Analyzed: 06/30/20						
Benzene	0.132	0.0020	mg/kg	0.100	0.0117	120	70-130	13.0	30	
Benzene	0.132	0.0020	"	0.100	0.0117	120	70-130	13.0	30	
Toluene	0.681	0.0050	"	0.100	0.648	33.5	70-130	5.90	30	QM-07
Toluene	0.681	0.0050	"	0.100	3000000	NR	70-130	5.90	30	QM-07
Ethylbenzene	0.726	0.0050	"	0.100	3000000	NR	70-130	3.37	30	QM-07
Ethylbenzene	0.726	0.0050	"	0.100	0.707	19.5	70-130	3.37	30	QM-07
m,p-Xylene	3.34	0.010	"	0.200	3000000	NR	70-130	13.6	30	QM-07
m,p-Xylene	3.34	0.010	"	0.200	3000000	NR	70-130	13.6	30	QM-07
o-Xylene	1.87	0.0050	"	0.100	3000000	NR	70-130	4.92	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0774		"	0.0400		194	23-173			S-02
Surrogate: 1,2-Dichloroethane-d4	0.0774		"	0.0400		194	23-173			S-02
Surrogate: Toluene-d8	0.0532		"	0.0400		133	20-170			
Surrogate: Toluene-d8	0.0532		"	0.0400		133	20-170			
Surrogate: 4-Bromofluorobenzene	0.199		"	0.0400		498	21-167			S-02
Surrogate: 4-Bromofluorobenzene	0.199		"	0.0400		498	21-167			S-02

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2006338 - EPA 3550A

Blank (2006338-BLK1)

Prepared & Analyzed: 06/24/20

C10-C28 (DRO) ND 50 mg/kg

LCS (2006338-BS1)

Prepared & Analyzed: 06/24/20

C10-C28 (DRO) 481 50 mg/kg 500 96.2 70-130

Matrix Spike (2006338-MS1)

Source: 2006253-01

Prepared & Analyzed: 06/24/20

C10-C28 (DRO) 495 50 mg/kg 500 37.2 91.6 70-130

Matrix Spike Dup (2006338-MSD1)

Source: 2006253-01

Prepared & Analyzed: 06/24/20

C10-C28 (DRO) 481 50 mg/kg 500 37.2 88.7 70-130 2.89 20

Batch 2006389 - EPA 3550A

Blank (2006389-BLK1)

Prepared & Analyzed: 06/29/20

C10-C28 (DRO) ND 50 mg/kg

LCS (2006389-BS1)

Prepared & Analyzed: 06/29/20

C10-C28 (DRO) 496 50 mg/kg 500 99.2 70-130

Matrix Spike (2006389-MS1)

Source: 2006294-01

Prepared & Analyzed: 06/29/20

C10-C28 (DRO) 1550 50 mg/kg 500 954 120 70-130

Matrix Spike Dup (2006389-MSD1)

Source: 2006294-01

Prepared & Analyzed: 06/29/20

C10-C28 (DRO) 1390 50 mg/kg 500 954 87.4 70-130 11.1 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2006345 - General Preparation

Blank (2006345-BLK1)

Prepared & Analyzed: 06/24/20

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

LCS (2006345-BS1)

Prepared & Analyzed: 06/24/20

Calcium	504	10.0	mg/kg wet	500		101	70-130			
Magnesium	572	5.00	"	500		114	70-130			
Sodium	514	5.00	"	500		103	70-130			

Duplicate (2006345-DUP1)

Source: 2006277-01

Prepared & Analyzed: 06/24/20

Calcium	588	10.8	mg/kg dry		533			9.95	20	
Magnesium	402	5.42	"		341			16.5	20	
Sodium	54.4	5.42	"		59.8			9.44	20	

Matrix Spike (2006345-MS1)

Source: 2006277-01

Prepared & Analyzed: 06/24/20

Calcium	1060	10.8	mg/kg dry	542	533	97.9	70-130			
Magnesium	821	5.42	"	542	341	88.6	70-130			
Sodium	565	5.42	"	542	59.8	93.1	70-130			

Matrix Spike Dup (2006345-MSD1)

Source: 2006277-01

Prepared & Analyzed: 06/24/20

Calcium	923	10.8	mg/kg dry	542	533	71.9	70-130	14.2	25	
Magnesium	825	5.42	"	542	341	89.4	70-130	0.542	25	
Sodium	564	5.42	"	542	59.8	93.0	70-130	0.0703	25	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2006348 - General Preparation

Duplicate (2006348-DUP1)		Source: 2006277-01			Prepared & Analyzed: 06/25/20				
% Solids	92.1		%		92.2		0.108	20	

Batch 2006349 - General Preparation

LCS (2006349-BS1)					Prepared & Analyzed: 06/25/20			
pH	9.23		pH Units	9.18		101	95-105	
Duplicate (2006349-DUP1)		Source: 2006296-01			Prepared & Analyzed: 06/25/20			
pH	8.28		pH Units		8.28		0.00	20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/01/20 12:20

Specific Conductance by EPA Method 120.1 - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2006350 - General Preparation

Blank (2006350-BLK1)

Prepared & Analyzed: 06/25/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (2006350-BS1)

Prepared & Analyzed: 06/25/20

Specific Conductance (EC) 0.750 0.0100 mmhos/cm 0.750 100 90-110

Duplicate (2006350-DUP1)

Source: 2006296-01

Prepared & Analyzed: 06/25/20

Specific Conductance (EC) 0.466 0.0100 mmhos/cm 0.466 0.0322 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: CPC Hoshiko 35-1, Hoshiko B 35-14 (AST Pit)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/01/20 12:20

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference