

FREMONT ENVIRONMENTAL INC.

April 16, 2021

Mr. Jason Davidson
Great Western Operating Company, LLC
1001 17th Street, Suite 2000
Denver, CO 80202

Subject: **Wellhead Closure Data Submittal**
 Heinze 31-44 Wellhead
 API #05-123-24929
 SESE Sec 31, T7N, R63W
 Weld County, Colorado
 Fremont Project No. C021-016
 Remediation #16818

Dear Mr. Davidson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities at the Heinze 31-44 wellhead. Removal of the associated flow line was postponed until the Fall of 2021 so the landowner could complete the crop harvest.

Since the soil concentrations for the sample collected adjacent to the wellhead meet the relevant Table 915-1 standards, no additional site investigation or remediation is required at this site.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Attachments:
 Wellhead Checklist
 Table
 Figures
 Photos
 Laboratory Report

1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

Wellhead Closure Checklist							
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form							
Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure	Partially Buried Vault Closure
Site Name & COGCC Facility Number: Heinze 31-44		Date: 04/06/2021					Remediation Project #: 16818
Associated Wells: 05-123-24929		Age of Site: Spud 2008					Number of Photos Attached: 4
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.52487/-104.47231						Estimated Facility Size (acres): 0.01	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition, no housekeeping issues, wellhead surrounded by alfalfa field							
USCS Soil Type: Silty sand				Estimated Depth to Groundwater: 114 ft in adjacent well in 1998			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed							
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed							
Wellhead(s)							
Well API	05-123-24929						
Age	spud 2008						
Condition of surface around wellhead	No issues						
PID Readings	0 ppm						
Condition of subsurface (staining present)	No staining						
PID Readings	max PID = 38 ppm						
Sample taken? Location/Sample ID#	Floor sample at 6 ft						
Photo Number(s)	#1 to #4						
Other observations regarding wellheads: None							
Summary							
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards							
Total number of samples field screened: 5				Total number of samples collected: 5			
Highest PID Reading: 38 ppm				Total number of samples submitted to lab for analysis: 1			
If more than 10 cubic yards of impacted soil were observed:							
Vertical extent:				Estimated spill volume:			
Lateral extent:				Volume of soil removed:			
Is additional investigation required?							
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils							
Measured depth to groundwater: NA				Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered: NA				Commencement date of removal:			
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:			
Free product observed? Yes No				Volume of groundwater removed post sampling:			
Total number of samples collected:				Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:							

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
HEINZE 31-44, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C021-016

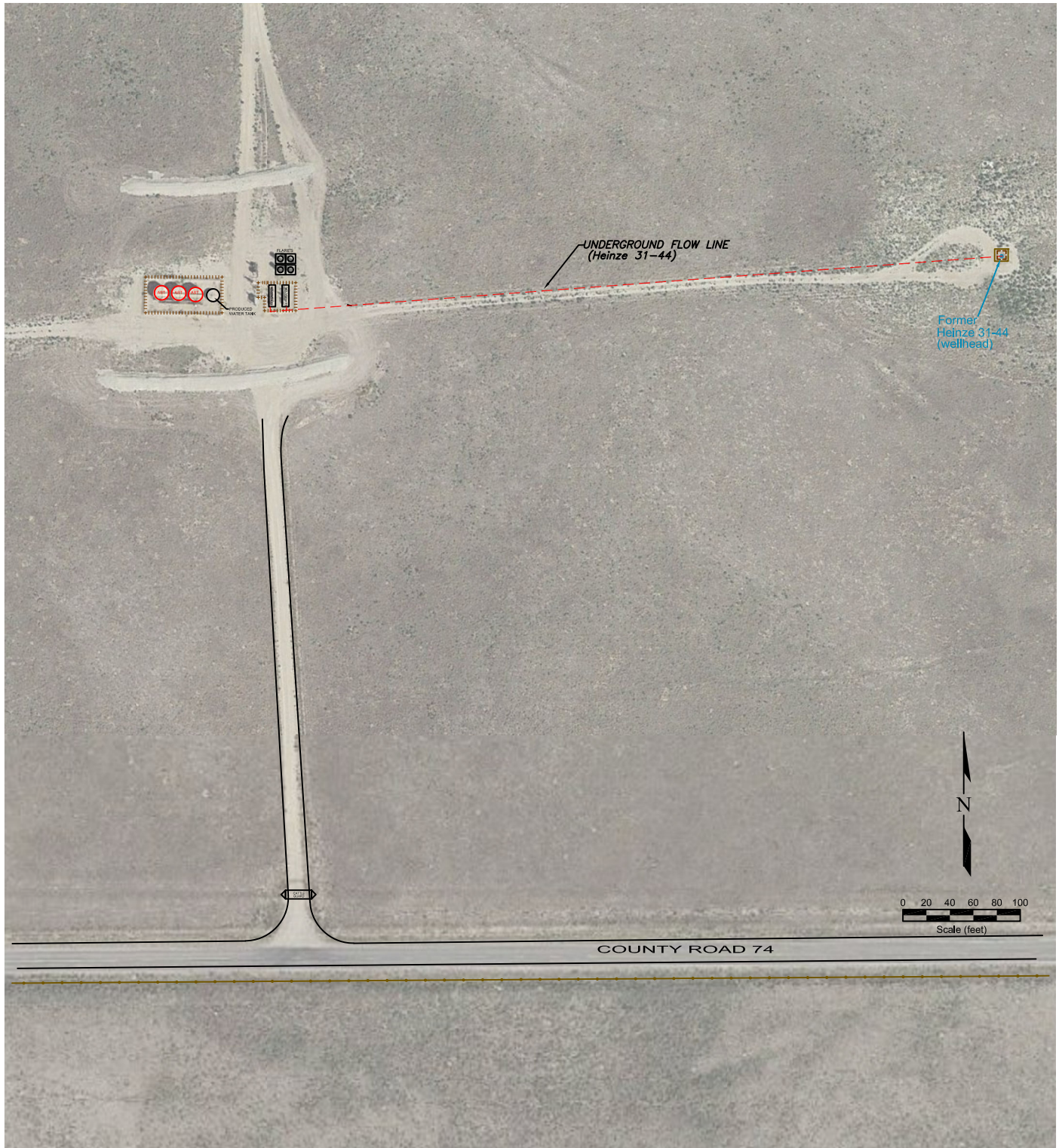
Sample	Depth (ft)	Date Sampled	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
N Wall 4 Ft	4	4/6/2021	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S Wall 4 Ft	4	4/6/2021	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E Wall 4 Ft	4	4/6/2021	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W Wall 4 Ft	4	4/6/2021	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Floor 6 Ft	6	4/6/2021	38	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0038	7.21	206	<200
COGCC Table 915-1 Limits (Residential SSL)				1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500*	500*	500*

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed



LEGEND

- WELLHEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- UNDERGROUND FLOW LINE

Figure 2
SITE MAP

Great Western Operating Company
Heinze 31-44 Wellhead & Flow Line
 SESE Sec. 31, T7N, R63W 6th PM
 Weld County, Colorado

Project Number C021-016	API Number 05-123-24929	Facility ID 289847
Date 4/16/21	Reviewed by PH	Filename 21016Q





LEGEND

	WELLHEAD LOCATION	04/06/2021	DATE SAMPLED
	SOIL SAMPLE LOCATION	Floor @ 6'	SAMPLE ID and DEPTH (ft)
	PID READING LOCATION	38 ppm	PHOTO IONIZATION DETECTION (ppm)
	FENCELINE	B	BENZENE (mg/kg)
	EXTENT OF EXCAVATION	T	TOLUENE (mg/kg)
	UNDERGROUND FLOW LINE	E	ETHYLBENZENE (mg/kg)
	SAMPLE DEPTH (ft)	X	TOTAL XYLENES (mg/kg)
	PID READING (ppm)	1,2,4-TB	1,2,4-TRIMETHYLBENZENE (mg/kg)
		1,3,5-TB	1,3,5-TRIMETHYLBENZENE (mg/kg)
		N	NAPHTHALENE (mg/kg)
		G	TPH-GRO (mg/kg)
		D	TPH-DRO (mg/kg)
		O	TPH-ORO (mg/kg)

(ppm) = parts per million

Figure 3
SOIL CHEMISTRY WITH PID READINGS MAP
April 6, 2021
Great Western Operating Company
Heinze 31-44 Wellhead & Flow Line
SESE Sec. 31, T7N, R63W 6th PM
Weld County, Colorado

Project Number C021-016	API Number 05-123-24929	Facility ID 289847
Date 4/16/21	Reviewed by PH	Filename 21016QQ





#1- Looking East at Heinze 31-44 Wellhead After Cutting and Capping



#2 - Looking South at Heinze 31-44



#3 - Looking West at Heinze 31-44



#4 - Looking North at Heinze 31-44



April 13, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - Heinze 31-44

Project Number - [none]

Attached are your analytical results for GWOC - Heinze 31-44 received by Origins Laboratory, Inc. April 07, 2021. This project is associated with Origins project number Y104111-01.

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

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wellhead Floor 6ft	Y104111-01	Soil	April 6, 2021 0:00	04/07/2021 10:00

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.

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henahan
Project Number: [none]
Project: GWOC - Heinze 31-44

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4/10/11

page 1 of 1

Client: Fremont Environmental Inc.
Address:
Telephone Number:
Email Address:
Project Manager: Henahan
Project Name: GWOC - HEINZE 31-44
Project Number:
Samples Collected By: HENAHAN

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	DBP/RO/CO	PAHs	PH, EC, SAR	Boron	915 metals	Arsenic	BTEX+N+TMBs
WELLHEAD FLOOR 6A	4/6/21		1															
Relinquished By: [Signature]	Date: 4/7/21		Time: 10:00 AM															
Relinquished By:	Date:		Time:															
				Received By: [Signature]														
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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: GWOC - Heinze 31-44

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y104111

Client: Fremont

Client Project ID: Heinze 31-44

Checklist Completed by: JG

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

Date/time completed: 4/7/21

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4.6 °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"/>	<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 checked="" 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 checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>No sample time</u>
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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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 Jm (Project Manager)

4-8-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

Wellhead Floor 6ft
4/6/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104111-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	206	50.0	mg/kg	1	B1D0819	KDK	04/08/2021	04/09/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 72.8 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1D0703	TEM	04/07/2021	04/07/2021	U
Naphthalene	ND	0.00380	"	"	"	TEM	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	7.21	0.200	"	"	"	TEM	"	"	
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.5 % 70-130 " " "
Surrogate: Toluene-d8 112 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)										
Blank (B1D0703-BLK1)					Prepared: 04/07/2021 Analyzed: 04/07/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.6	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)										
LCS (B1D0703-BS1)					Prepared: 04/07/2021 Analyzed: 04/07/2021					
1,2,4-Trimethylbenzene	0.0590	0.00200	mg/kg	0.0500		118	70-130			
Naphthalene	0.0537	0.0100	"	0.0500		107	70-130			
1,3,5-Trimethylbenzene	0.0579	0.00200	"	0.0500		116	70-130			
Benzene	0.0410	0.00200	"	0.0500		81.9	70-130			
Ethylbenzene	0.0570	0.00200	"	0.0500		114	70-130			
m,p-Xylene	0.113	0.00400	"	0.100		113	70-130			
o-Xylene	0.0571	0.00200	"	0.0500		114	70-130			
Toluene	0.0517	0.00200	"	0.0500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)										
Matrix Spike (B1D0703-MS1)		Source: Y104111-01			Prepared: 04/07/2021 Analyzed: 04/07/2021					
1,2,4-Trimethylbenzene	0.0661	0.00200	mg/kg	0.0500	0.000480	131	70-130			QM-07
Naphthalene	0.0663	0.0100	"	0.0500	0.00322	126	70-130			
1,3,5-Trimethylbenzene	0.0655	0.00200	"	0.0500	0.000440	130	70-130			
Benzene	0.0472	0.00200	"	0.0500	ND	94.4	70-130			
Ethylbenzene	0.0659	0.00200	"	0.0500	ND	132	70-130			QM-07
m,p-Xylene	0.130	0.00400	"	0.100	ND	130	70-130			
o-Xylene	0.0670	0.00200	"	0.0500	ND	134	70-130			QM-07
Toluene	0.0584	0.00200	"	0.0500	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)

Matrix Spike Dup (B1D0703-MSD1)		Source: Y104111-01			Prepared: 04/07/2021 Analyzed: 04/07/2021					
1,2,4-Trimethylbenzene	0.0681	0.00200	mg/kg	0.0500	0.000480	135	70-130	3.01	20	QM-07
Naphthalene	0.0700	0.0100	"	0.0500	0.00322	134	70-130	5.43	20	QM-07
1,3,5-Trimethylbenzene	0.0673	0.00200	"	0.0500	0.000440	134	70-130	2.68	20	QM-07
Benzene	0.0494	0.00200	"	0.0500	ND	98.7	70-130	4.47	20	
Ethylbenzene	0.0674	0.00200	"	0.0500	ND	135	70-130	2.25	20	QM-07
m,p-Xylene	0.134	0.00400	"	0.100	ND	134	70-130	2.64	20	QM-07
o-Xylene	0.0684	0.00200	"	0.0500	ND	137	70-130	2.04	20	QM-07
Toluene	0.0599	0.00200	"	0.0500	ND	120	70-130	2.47	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.7	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B										
Blank (B1D0819-BLK1)					Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		73.7	50-150			

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.

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B

LCS (B1D0819-BS1)

Prepared: 04/08/2021 Analyzed: 04/08/2021

Diesel (C10-C28)	891	50.0	mg/kg	1000		89.1	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000		92.3	70-130			
Surrogate: o-Terphenyl	40		"	50.0		79.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B

Matrix Spike (B1D0819-MS1)		Source: Y104134-05			Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	1730	50.0	mg/kg	1000	1200	53.1	70-130			QM-07
Residual Range Organics (C28-C40)	1130	200	"	1000	241	88.7	70-130			
Surrogate: o-Terphenyl	37		"	50.0		74.5	50-150			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B

Matrix Spike Dup (B1D0819-MSD1)		Source: Y104134-05			Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	1850	50.0	mg/kg	1000	1200	65.0	70-130	6.64	35	QM-07
Residual Range Organics (C28-C40)	1160	200	"	1000	241	91.6	70-130	2.51	35	
Surrogate: o-Terphenyl	39		"	50.0		77.2	50-150			

Origins Laboratory, Inc.



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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

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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