

FREMONT ENVIRONMENTAL INC.

August 25, 2021

Mr. Mike Hickey
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

Subject: **Wellhead Closure Data Submittal**
Reinholdt Schmidt #1 Wellhead – Orphan Well Program
SWNE Sec 5, T6N, R60W
Morgan County, Colorado
Facility #394744, API 05-087-06647

Dear Mr. Hickey:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted wellhead closure sampling tasks for the Reinholdt Schmidt #1 (OWP) wellhead. Arsenic, selenium, 1-methylnaphthalene and 2-methylnaphthalene exceeded the COGCC Table 915-1 Protection of Groundwater standards for soil; these soil impacts were left in place. Please note that the arsenic and selenium concentrations in the Background sample were also above the COGCC Table 915-1 standards. The attached Closure Report details the abandonment work.

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:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

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:		Date:						Remediation Project #:
Associated Wells:		Age of Site:						Number of Photos Attached:
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
USCS Soil Type:				Estimated Depth to Groundwater:				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Wellhead(s)								
Well API								
Age								
Condition of surface around wellhead								
PID Readings								
Condition of subsurface (staining present)								
PID Readings								
Sample taken?								
Location/Sample ID#								
Photo Number(s)								
Other observations regarding wellheads:								
Summary								
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened:				Total number of samples collected:				
Highest PID Reading:				Total number of samples submitted to lab for analysis:				
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? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:				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 ORGANIC (VOC AND TPH) SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
REINHOLDT SCHMIDT #1, MORGAN COUNTY, COLORADO
FREMONT PROJECT NO. C021-072

Sample	Depth (ft)	Date Sampled	Location	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	8/13/2021	Wall	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.010	<0.200	<25.0	<100
Floor 7 Ft	7	8/13/2021	Floor	<0.0020	<0.0020	0.00522	0.0233	0.00576	0.0117	<0.010	0.548	83.9	202
Background 1 Ft	1	8/13/2021	Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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)

NA - Not Analyzed

TABLE 2
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
REINHOLDT SCHMIDT #1, MORGAN COUNTY, COLORADO
FREMONT PROJECT NO. C021-072

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
Floor 7 Ft	8/13/2021	7	1.90	8.22	3.43	0.36
Background 1 Ft	8/13/2021	1	0.43	7.57	0.0391	1.11
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBONS (PAH) SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
REINHOLDT SCHMIDT #1, MORGAN COUNTY, COLORADO
FREMONT PROJECT NO. C021-072

Sample	Depth (ft)	Date Sampled	Location	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
Floor 7 Ft	7	8/13/2021	Floor	<0.00431	<0.00426	<0.00441	<0.00138	<0.00486	<0.00133	0.0175	<0.00279	<0.00529	0.017	<0.00344	0.0762	0.0447	<0.00387
COGCC Table 915-1 Limits (Residential SSL)				360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3

Bold faced values exceed the COGCC Table 915-1 concentrations
Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 4
SUMMARY OF METALS SOIL CHEMISTRY DATA
COLORADO OIL AND GAS CONSERVATION COMMISSION
REINHOLDT SCHMIDT #1, MORGAN COUNTY, COLORADO
FREMONT PROJECT NO. C021-072

Sample	Depth (ft)	Date Sampled	Location	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Hexavalent Chromium (mg/kg)
Floor 7 Ft	7	8/13/2021	Floor	2.33	73.4	0.0902	5.17	8.08	6.34	0.277	0.0285	28.9	<0.244
Background	1	8/13/2021	Background	11	54.6	0.127	4.98	8.79	5.26	0.328	0.0243	29.2	<0.488
COGCC Table 915-1 Limits (Residential SSL)				0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067

Bold faced values exceed the COGCC Table 915-1 concentrations

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



LEGEND

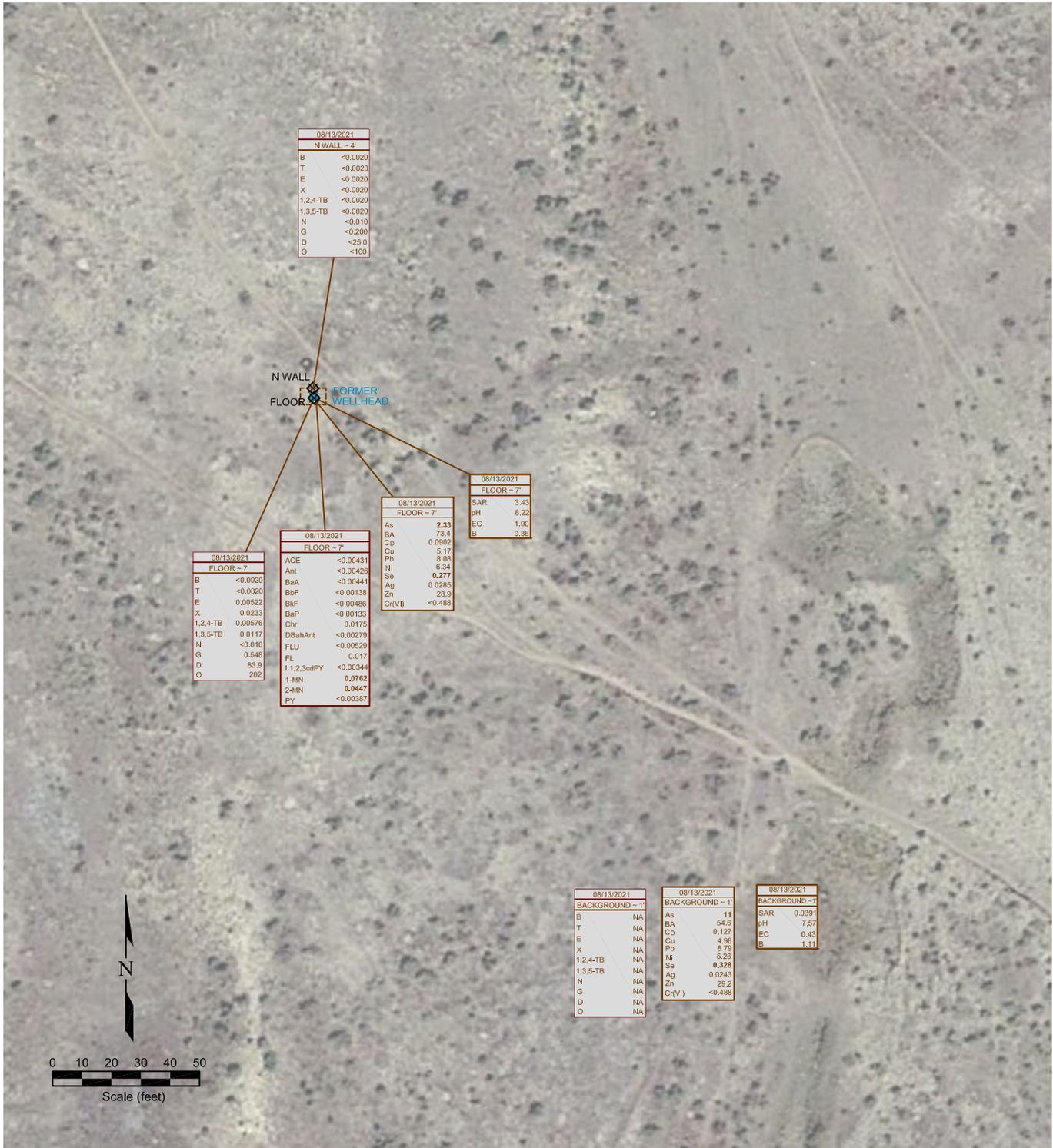
- WELLHEAD LOCATION
- FORMER FACILITY
- EXTENT OF EXCAVATION

**Figure 2
SITE MAP**

COLORADO OIL AND GAS CONSERVATION COMMISSION
Reinholdt Schmidt #1
 SWNE Sec.5, T6N, R60W, 6th PM
 Mogan County, Colorado

Project No. C021-072	API # 05-087-06647	Facility # 394744
Date 8/28/21	Reviewed By PH	Filename 21072Q





08/13/2021	
N WALL - 4'	
B	<0.0020
T	<0.0020
E	<0.0020
X	<0.0020
1,2,4-TB	<0.0020
1,3,5-TB	<0.0020
N	<0.010
G	<0.200
D	<25.0
O	<100

N WALL
FLOOR - 7
FORMER WELLHEAD

08/13/2021	
FLOOR - 7	
SAR	3.43
pH	8.22
EC	1.90
B	0.38

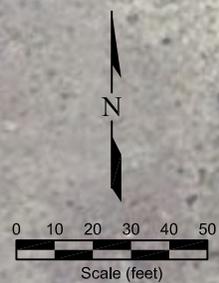
08/13/2021	
FLOOR - 7	
As	2.33
BA	73.4
Cd	0.0902
Cu	5.17
Pb	8.08
Ni	6.34
Se	0.277
Ag	0.0265
Zn	28.9
Cr(VI)	<0.488

08/13/2021		08/13/2021	
FLOOR - 7		FLOOR - 7	
B	<0.0020	ACE	<0.00431
T	<0.0020	Ant	<0.00428
E	<0.0020	BaA	<0.00441
X	0.00522	BbF	<0.00138
1,2,4-TB	0.00576	BkF	<0.00486
1,3,5-TB	0.0117	BaP	<0.00133
N	<0.010	Chr	0.0175
G	0.548	DBahAnt	<0.00279
D	83.9	FLU	<0.00529
O	202	FL	0.017
		1,1,2,3cdPY	<0.00344
		1-MN	0.0762
		2-MN	0.0447
		Py	<0.00387

08/13/2021	
BACKGROUND - 1'	
B	NA
T	NA
E	NA
X	NA
1,2,4-TB	NA
1,3,5-TB	NA
N	NA
G	NA
D	NA
O	NA

08/13/2021	
BACKGROUND - 1'	
As	11
BA	54.6
Cd	0.127
Cu	4.98
Pb	8.79
Ni	5.26
Se	0.328
Ag	0.0243
Zn	29.2
Cr(VI)	<0.488

08/13/2021	
BACKGROUND - 1'	
SAR	0.0391
pH	7.57
EC	0.43
B	1.11



LEGEND

08/13/2021	DATE SAMPLED	08/13/2021	DATE SAMPLED
FLOOR - 7	SAMPLE ID and DEPTH (ft)	N WALL - 4'	SAMPLE ID and DEPTH (ft)
ACE	<0.00431	B	<0.0020
ACENAPHTHENE (mg/kg)		T	<0.0020
ANTHRACENE (mg/kg)		E	<0.0020
BaA	<0.00441	X	<0.0020
BbF	<0.00138	1,2,4-TB	<0.0020
BaP	<0.00133	1,3,5-TB	<0.0020
BaP	<0.00133	N	<0.010
Chr	0.0175	G	<0.200
DBahAnt	<0.00279	D	<25.0
FLU	<0.00529	O	<100
FL	0.017		
1,1,2,3cdPY	<0.00344		
1-MN	0.0762		
2-MN	0.0447		
Py	<0.00387		

Figure 3
SOIL CHEMISTRY MAP
August 13, 2021
COLORADO OIL AND GAS CONSERVATION COMMISSION
Reinholdt Schmidt #1
SWNE Sec.5, T6N, R60W, 6th PM
Mogan County, Colorado

Project No. C021-072	API # 05-087-06647	Facility # 394744
Date 8/28/21	Reviewed By PH	Filename 21072Q



#1- Reinholdt Schmidt #1 – Looking Northwest



#2 – Looking east at excavation



#3 - Looking west at Excavation



#4 – Looking southwest at walls

August 25, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - COGCC - Reinholdt Schmidt #1 Project Number - C021-072

Attached are your analytical results for COGCC - Reinholdt Schmidt #1 received by Origins Laboratory, Inc. August 16, 2021. This project is associated with Origins project number Y108337-01.

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



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

Paul Henehan
Project Number: C021-072
Project: COGCC - Reinholdt Schmidt #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall 4ft	Y108337-01	Soil	August 13, 2021 0:00	08/16/2021 10:45
Floor 7ft	Y108337-02	Soil	August 13, 2021 0:00	08/16/2021 10:45
Background 1ft	Y108337-03	Soil	August 13, 2021 0:00	08/16/2021 10:45

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: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y108337

Client: Fremont

Client Project ID: COGCC - Reinholdt

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 8/16/21

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

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"/>			
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"/>		No sample times
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"/>		Not signed
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: JG (Project Manager)

Date/Time Reviewed: 8/17/21

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

N Wall 4ft
8/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108337-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1614	DJL	08/16/2021	08/18/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	76.2 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H1615	KDK	08/16/2021	08/17/2021	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Floor 7ft

8/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108337-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.360	0.200	mg/L	1	B1H1612	JMA	08/16/2021	08/17/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	83.9	25.0	mg/kg	1	B1H1614	DJL	08/16/2021	08/18/2021	
Residual Range Organics (C28-C40)	202	100	"	"	"	DJL	"	"	

Surrogate: o-Terphenyl	88.8 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00576	0.00200	mg/kg	1	B1H1615	KDK	08/16/2021	08/17/2021	
1,3,5-Trimethylbenzene	0.0117	0.00200	"	"	"	KDK	"	"	
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	0.00522	0.00200	"	"	"	KDK	"	"	
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	0.548	0.200	"	"	"	KDK	"	"	
Xylenes, total	0.0233	0.00200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Metals by Saturated Paste

Calcium	5.50	0.0499	meq/L	1	[CALC]	CJM	08/18/2021	08/19/2021	
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Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Floor 7ft

8/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108337-02 (Soil)

Metals by Saturated Paste

Magnesium	3.40	0.0823	meq/L	1	[CALC]	CJM	08/18/2021	08/19/2021	
Sodium	7.20	0.0435	"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0762	0.0067	mg/Kg	10	L569979		08/19/2021	08/19/2021	
2-Methylnaphthalene	0.0447	0.0067	"	"	"		"	"	
Acenaphthene	ND	0.0067	"	"	"		"	"	
Anthracene	ND	0.0067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.0067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.0067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.0067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.0067	"	"	"		"	"	
Chrysene	0.0175	0.0067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.0067	"	"	"		"	"	
Fluoranthene	ND	0.0067	"	"	"		"	"	
Fluorene	0.017	0.0067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0067	"	"	"		"	"	
Naphthalene	ND	0.0067	"	"	"		"	"	
Pyrene	ND	0.0067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 73.3 % 33-115 " " "

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Floor 7ft

8/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108337-02 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	70.3 %	33-122			L5699 79		08/19/2021	08/19/2021	
Surrogate: Nitrobenzene-d5	55.6 %	29-110			"	"	"	"	

pH in Soil by 9045D

pH	8.22		pH Units	1	B1H1803	TSH	08/18/2021	08/18/2021	
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SAR by 20B Saturated Paste

SAR	3.43		SAR	1	B1H1809	CJM	08/18/2021	08/19/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.90	0.00500	mmhos/cm	1	B1H1806	TSH	08/18/2021	08/18/2021	
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Total Metals by 6020B

Arsenic	2.33	0.25	mg/Kg	5	L569811		08/18/2021	08/22/2021	
Barium	73.4	0.25	"	"	"		"	"	
Cadmium	0.0902	0.25	"	"	"		"	"	J
Copper	5.17	0.25	"	"	"		"	"	
Lead	8.08	0.25	"	"	"		"	"	
Nickel	6.34	0.25	"	"	"		"	"	
Selenium	0.277	0.25	"	"	"		"	"	
Silver	0.0285	0.25	"	"	"		"	"	J

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C021-072
Project: COGCC - Reinholdt Schmidt #1

Floor 7ft

8/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108337-02 (Soil)

Total Metals by 6020B

Zinc	28.9	2.5	mg/Kg	5	L569811		08/18/2021	08/22/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L569889		08/13/2021	08/19/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Background 1ft
8/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108337-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.11	0.199	mg/L	1	B1H1612	JMA	08/16/2021	08/17/2021	
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Metals by Saturated Paste

Calcium	3.60	0.0499	meq/L	"	[CALC]	CJM	08/18/2021	08/19/2021	
Magnesium	0.585	0.0823	"	"	"	CJM	"	"	
Sodium	0.0565	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	7.57		pH Units	1	B1H1803	TSH	08/18/2021	08/18/2021	
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SAR by 20B Saturated Paste

SAR	0.0391		SAR	1	B1H1809	CJM	08/18/2021	08/19/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.430	0.00500	mmhos/cm	1	B1H1806	TSH	08/18/2021	08/18/2021	
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Total Metals by 6020B

Arsenic	11	0.25	mg/Kg	5	L570028		08/19/2021	08/22/2021	
Barium	54.6	0.25	"	"	"		"	"	
Cadmium	0.127	0.25	"	"	"		"	"	J
Copper	4.98	0.25	"	"	"		"	"	

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Background 1ft

8/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108337-03 (Soil)

Total Metals by 6020B

Lead	8.79	0.25	mg/Kg	5	L570028		08/19/2021	08/22/2021	
Nickel	5.26	0.25	"	"	"		"	"	
Selenium	0.328	0.25	"	"	"		"	"	
Silver	0.0243	0.25	"	"	"		"	"	J
Zinc	29.2	2.5	"	"	"		"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1	mg/Kg	2	L569889		08/13/2021	08/19/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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
Batch B1H1614 - EPA 3550B										
Blank (B1H1614-BLK1)										
					Prepared: 08/16/2021 Analyzed: 08/18/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		84.6	50-150			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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 B1H1614 - EPA 3550B

LCS (B1H1614-BS1)

Prepared: 08/16/2021 Analyzed: 08/18/2021

Diesel (C10-C28)	875	50.0	mg/kg	1000		87.5	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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 B1H1614 - EPA 3550B

Matrix Spike (B1H1614-MS1)	Source: Y108315-01			Prepared: 08/16/2021 Analyzed: 08/18/2021						
Diesel (C10-C28)	858	50.0	mg/kg	1000	ND	85.8	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.0	50-150			

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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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
Batch B1H1614 - EPA 3550B										
Matrix Spike Dup (B1H1614-MSD1)					Source: Y108315-01					Prepared: 08/16/2021 Analyzed: 08/18/2021
Diesel (C10-C28)	956	50.0	mg/kg	1000	ND	95.6	70-130	10.8	35	
Residual Range Organics (C28-C40)	1240	200	"	1000	ND	124	70-130	15.7	35	
Surrogate: o-Terphenyl	56		"	50.0		112	50-150			

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 Wellington CO 80549

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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 B1H1615 - EPA 5030 (soil)

Blank (B1H1615-BLK1)

Prepared: 08/16/2021 Analyzed: 08/16/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							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	91.9		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.7		70-130			

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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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 B1H1615 - EPA 5030 (soil)

LCS (B1H1615-BS1)

Prepared: 08/16/2021 Analyzed: 08/16/2021

1,2,4-Trimethylbenzene	0.0546	0.00200	mg/kg	0.0500		109	70-130			
Naphthalene	0.0479	0.0100	"	0.0500		95.8	70-130			
1,3,5-Trimethylbenzene	0.0520	0.00200	"	0.0500		104	70-130			
Benzene	0.0414	0.00200	"	0.0500		82.8	70-130			
Ethylbenzene	0.0509	0.00200	"	0.0500		102	70-130			
m,p-Xylene	0.108	0.00400	"	0.100		108	70-130			
o-Xylene	0.0524	0.00200	"	0.0500		105	70-130			
Toluene	0.0515	0.00200	"	0.0500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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 B1H1615 - EPA 5030 (soil)

Matrix Spike (B1H1615-MS1)	Source: Y108319-01			Prepared: 08/16/2021 Analyzed: 08/16/2021						
1,2,4-Trimethylbenzene	0.0448	0.00200	mg/kg	0.0500	0.000640	88.4	70-130			
Naphthalene	0.0530	0.0100	"	0.0500	0.00390	98.2	70-130			
1,3,5-Trimethylbenzene	0.0417	0.00200	"	0.0500	0.000440	82.6	70-130			
Benzene	0.0378	0.00200	"	0.0500	ND	75.6	70-130			
Ethylbenzene	0.0399	0.00200	"	0.0500	ND	79.8	70-130			
m,p-Xylene	0.0840	0.00400	"	0.100	ND	84.0	70-130			
o-Xylene	0.0434	0.00200	"	0.0500	ND	86.8	70-130			
Toluene	0.0418	0.00200	"	0.0500	ND	83.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

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 B1H1615 - EPA 5030 (soil)

Matrix Spike Dup (B1H1615-MSD1)	Source: Y108319-01			Prepared: 08/16/2021 Analyzed: 08/16/2021						
1,2,4-Trimethylbenzene	0.0551	0.00200	mg/kg	0.0500	0.000640	109	70-130	20.6	20	QR-03
Naphthalene	0.0577	0.0100	"	0.0500	0.00390	108	70-130	8.42	20	
1,3,5-Trimethylbenzene	0.0537	0.00200	"	0.0500	0.000440	106	70-130	25.0	20	QR-03
Benzene	0.0495	0.00200	"	0.0500	ND	99.0	70-130	26.8	20	QR-03
Ethylbenzene	0.0525	0.00200	"	0.0500	ND	105	70-130	27.3	20	QR-03
m,p-Xylene	0.111	0.00400	"	0.100	ND	111	70-130	27.5	20	QR-03
o-Xylene	0.0546	0.00200	"	0.0500	ND	109	70-130	22.8	20	QR-03
Toluene	0.0563	0.00200	"	0.0500	ND	113	70-130	29.6	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L569979 - 3550B

MSD (L 93063-MSD-L569979)		Source: 93063			Prepared: 08/19/2021 Analyzed: 08/19/2021					
Chrysene	0.133	0.000256	mg/Kg	0.164	93063	81	30-130	2.9	30	
Dibenz(a,h)anthracene	0.0994	0.000279	"	0.164	93063	60.6	30-130	13.6	30	
Fluoranthene	0.125	0.000529	"	0.164	93063	76.2	30-130	9.1	30	
Indeno(1,2,3-cd)pyrene	0.0931	0.000344	"	0.164	93063	56.7	30-130	13.8	30	
Benzo(k)fluoranthene	0.113	0.000486	"	0.164	93063	68.9	30-130	7.6	30	
Pyrene	0.125	0.000387	"	0.164	93063	76.2	30-130	6.9	30	
Fluorene	0.12	0.000501	"	0.164	93063	73.1	30-130	7.2	30	
1-Methylnaphthalene	0.108	0.00048	"	0.164	93063	65.8	30-130	8	30	
Benzo(a)pyrene	0.123	0.000133	"	0.164	93063	75	30-130	5.5	30	
Benzo(a)anthracene	0.141	0.000441	"	0.164	93063	85.9	30-130	4.8	30	
Anthracene	0.128	0.000426	"	0.164	93063	78	30-130	6	30	
Acenaphthene	0.115	0.000431	"	0.164	93063	70.1	30-130	6.7	30	
2-Methylnaphthalene	0.107	0.000542	"	0.164	93063	65.2	30-130	8	30	
Naphthalene	0.104	0.000467	"	0.164	93063	63.4	30-130	6.5	30	
Benzo(b)fluoranthene	0.113	0.000138	"	0.164	93063	68.9	30-130	8.4	30	
Surrogate: Nitrobenzene-d5	63.5		"	0.329	199	63.5	29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.329	233	75.3	33-122			
Surrogate: 2-Fluorobiphenyl	75.6		"	0.329	223	75.6	33-115			

MS (L 93063-MS-L569979)		Source: 93063			Prepared: 08/19/2021 Analyzed: 08/19/2021					
Dibenz(a,h)anthracene	0.114	0.000279	mg/Kg	0.167	93063	68.2	30-130			
Fluoranthene	0.137	0.000529	"	0.167	93063	82	30-130			
Fluorene	0.129	0.000501	"	0.167	93063	77.2	30-130			
Indeno(1,2,3-cd)pyrene	0.107	0.000344	"	0.167	93063	64	30-130			
Chrysene	0.137	0.000256	"	0.167	93063	82	30-130			
Naphthalene	0.111	0.000467	"	0.167	93063	66.4	30-130			
Benzo(k)fluoranthene	0.122	0.000486	"	0.167	93063	73	30-130			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L569979 - 3550B

MS (L 93063-MS-L569979)	Source: 93063			Prepared: 08/19/2021 Analyzed: 08/19/2021						
Benzo(a)pyrene	0.13	0.000133	mg/Kg	0.167	93063	77.8	30-130			
Benzo(b)fluoranthene	0.123	0.000138	"	0.167	93063	73.6	30-130			
Acenaphthene	0.123	0.000431	"	0.167	93063	73.6	30-130			
2-Methylnaphthalene	0.116	0.000542	"	0.167	93063	69.4	30-130			
1-Methylnaphthalene	0.117	0.00048	"	0.167	93063	70	30-130			
Anthracene	0.136	0.000426	"	0.167	93063	81.4	30-130			
Benzo(a)anthracene	0.148	0.000441	"	0.167	93063	88.6	30-130			
Pyrene	0.134	0.000387	"	0.167	93063	80.2	30-130			
Surrogate: Nitrobenzene-d5	65.4		"	0.333	199	65.4	29-110			
Surrogate: 4-Terphenyl-d14	81		"	0.333	233	81	33-122			
Surrogate: 2-Fluorobiphenyl	79.5		"	0.333	223	79.5	33-115			

LCS (LCS-L569979)	Prepared: 08/19/2021 Analyzed: 08/19/2021									
Pyrene	0.0642	0.000387	mg/Kg	0.167		38.4	30-130			
2-Methylnaphthalene	0.0553	0.000542	"	0.167		33.1	30-130			
Acenaphthene	0.0583	0.000431	"	0.167		34.9	30-130			
Anthracene	0.0653	0.000426	"	0.167		39.1	30-130			
Benzo(a)anthracene	0.0687	0.000441	"	0.167		41.1	30-130			
Benzo(k)fluoranthene	0.0619	0.000486	"	0.167		37	30-130			
1-Methylnaphthalene	0.0548	0.00048	"	0.167		32.8	30-130			
Benzo(b)fluoranthene	0.058	0.000138	"	0.167		34.7	30-130			
Chrysene	0.0655	0.000256	"	0.167		39.2	30-130			
Dibenz(a,h)anthracene	0.064	0.000279	"	0.167		38.3	30-130			
Fluoranthene	0.0636	0.000529	"	0.167		38	30-130			
Fluorene	0.0598	0.000501	"	0.167		35.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0621	0.000344	"	0.167		37.1	30-130			
Naphthalene	0.0541	0.000467	"	0.167		32.3	30-130			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L569979 - 3550B

LCS (LCS-L569979)

Prepared: 08/19/2021 Analyzed: 08/19/2021

Benzo(a)pyrene	0.061	0.000133	mg/Kg	0.167		36.5	30-130			
Surrogate: 2-Fluorobiphenyl	47.1		"	0.333		47.1	33-115			
Surrogate: 4-Terphenyl-d14	47.1		"	0.333		47.1	33-122			
Surrogate: Nitrobenzene-d5	40.8		"	0.333		40.8	29-110			

LRB (LRB-L569979)

Prepared: 08/19/2021 Analyzed: 08/19/2021

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	80.1		"	0.333		80.1	33-122			
Surrogate: Nitrobenzene-d5	66		"	0.333		66	29-110			
Surrogate: 2-Fluorobiphenyl	79.2		"	0.333		79.2	33-115			

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

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570028 - 3050B

MSD (L 93187-MSD-L570028)		Source: 93187			Prepared: 08/19/2021 Analyzed: 08/22/2021					
Lead	5.75	0.031	mg/Kg	2.49	5.9	NR	75-125	37.3	80	*
Barium	18.6	0.042	"	4.98	37.6	NR	75-125	23.4	80	*
Zinc	32.5	0.534	"	24.9	24.1	34	75-125	1.2	80	*
Cadmium	0.508	0.0259	"	0.498	0.0574	102	75-125	3.4	80	
Silver	0.529	0.0067	"	0.498	0.0458	106	75-125	1.3	80	
Selenium	4.4	0.103	"	4.98	0.942	69	75-125	2	80	*
Copper	4.18	0.0806	"	2.49	9.38	NR	75-125	6.7	80	*
Nickel	3.51	0.0633	"	2.49	2.8	29	75-125	5.2	80	*
Arsenic	2.87	0.0855	"	2.49	0.83	82	75-125	15.3	80	

MS (L 93187-MS-L570028)		Source: 93187			Prepared: 08/19/2021 Analyzed: 08/22/2021					
Silver	0.522	0.0067	mg/Kg	0.481	0.0458	108	75-125			
Arsenic	2.46	0.0855	"	2.41	0.83	68	75-125			*
Selenium	4.31	0.103	"	4.81	0.942	70	75-125			*
Nickel	3.33	0.0633	"	2.41	2.8	22	75-125			*
Lead	3.94	0.031	"	2.41	5.9	NR	75-125			*
Copper	4.47	0.0806	"	2.41	9.38	NR	75-125			*
Cadmium	0.526	0.0259	"	0.481	0.0574	109	75-125			
Barium	14.7	0.042	"	4.81	37.6	NR	75-125			*
Zinc	32.9	0.534	"	24.1	24.1	37	75-125			*

LCS (LCS-L570028)		Prepared: 08/19/2021 Analyzed: 08/22/2021								
Zinc	25.4	0.534	mg/Kg	25		102	80-120			
Arsenic	2.45	0.0855	"	2.5		98	80-120			
Cadmium	0.491	0.0259	"	0.5		98	80-120			
Copper	2.45	0.0806	"	2.5		98	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			

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Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570028 - 3050B

LCS (LCS-L570028)

Prepared: 08/19/2021 Analyzed: 08/22/2021

Nickel	2.51	0.0633	mg/Kg	2.5		100	80-120			
Silver	0.507	0.0067	"	0.5		101	80-120			
Selenium	4.99	0.103	"	5		100	80-120			
Barium	5.41	0.042	"	5		108	80-120			

LRB (LRB-L570028)

Prepared: 08/19/2021 Analyzed: 08/22/2021

Nickel	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	0.0456	0.25	"				-			J
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Lead	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			

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Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L569811 - 3050B

MSD (L 92295-MSD-L569811)		Source: Y108337-02			Prepared: 08/18/2021 Analyzed: 08/22/2021					
Silver	0.493	0.0067	mg/Kg	0.484	0.0285	102	75-125	2.2	80	
Lead	9.65	0.031	"	2.42	8.08	65	75-125	4.5	80	*
Copper	7.71	0.0806	"	2.42	5.17	105	75-125	8	80	
Cadmium	0.558	0.0259	"	0.484	0.0902	115	75-125	2.3	80	
Nickel	8.58	0.0633	"	2.42	6.34	93	75-125	1.8	80	
Selenium	3.92	0.103	"	4.84	0.277	75	75-125	4	80	
Zinc	57.6	0.534	"	24.2	28.9	119	75-125	8.6	80	
Arsenic	4.47	0.0855	"	2.42	2.33	89	75-125	3.1	80	
Barium	75.1	0.042	"	4.84	73.4	35	75-125	1.7	80	*

MS (L 92295-MS-L569811)		Source: Y108337-02			Prepared: 08/18/2021 Analyzed: 08/22/2021					
Cadmium	0.545	0.0259	mg/Kg	0.48	0.0902	114	75-125			
Zinc	52.8	0.534	"	24	28.9	100	75-125			
Silver	0.504	0.0067	"	0.48	0.0285	105	75-125			
Selenium	4.08	0.103	"	4.8	0.277	79	75-125			
Nickel	8.42	0.0633	"	2.4	6.34	87	75-125			
Copper	7.11	0.0806	"	2.4	5.17	81	75-125			
Arsenic	4.33	0.0855	"	2.4	2.33	83	75-125			
Lead	9.22	0.031	"	2.4	8.08	48	75-125			*
Barium	76.4	0.042	"	4.8	73.4	63	75-125			*

LCS (LCS-L569811)		Prepared: 08/18/2021 Analyzed: 08/22/2021								
Copper	2.68	0.0806	mg/Kg	2.5		107	80-120			
Arsenic	2.41	0.0855	"	2.5		96	80-120			
Barium	5.3	0.042	"	5		106	80-120			
Cadmium	0.507	0.0259	"	0.5		101	80-120			
Lead	2.5	0.031	"	2.5		100	80-120			

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Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L569811 - 3050B

LCS (LCS-L569811)

Prepared: 08/18/2021 Analyzed: 08/22/2021

Nickel	2.5	0.0633	mg/Kg	2.5		100	80-120			
Silver	0.5	0.0067	"	0.5		100	80-120			
Zinc	24.7	0.534	"	25		99	80-120			
Selenium	5.07	0.103	"	5		101	80-120			

LRB (LRB-L569811)

Prepared: 08/18/2021 Analyzed: 08/22/2021

Lead	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: C021-072
 Project: COGCC - Reinholdt Schmidt #1

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L569889 -										
DUP (L 92202-DUP)		Source: 92202			Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg		92202		-	0	20	
MS (L 92202-MS)		Source: 92202			Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	0.767	0.488	mg/Kg	8	92202	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	7.11	0.244	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Paul Henehan
Project Number: C021-072
Project: COGCC - Reinholdt Schmidt #1

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

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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