

FIGURES

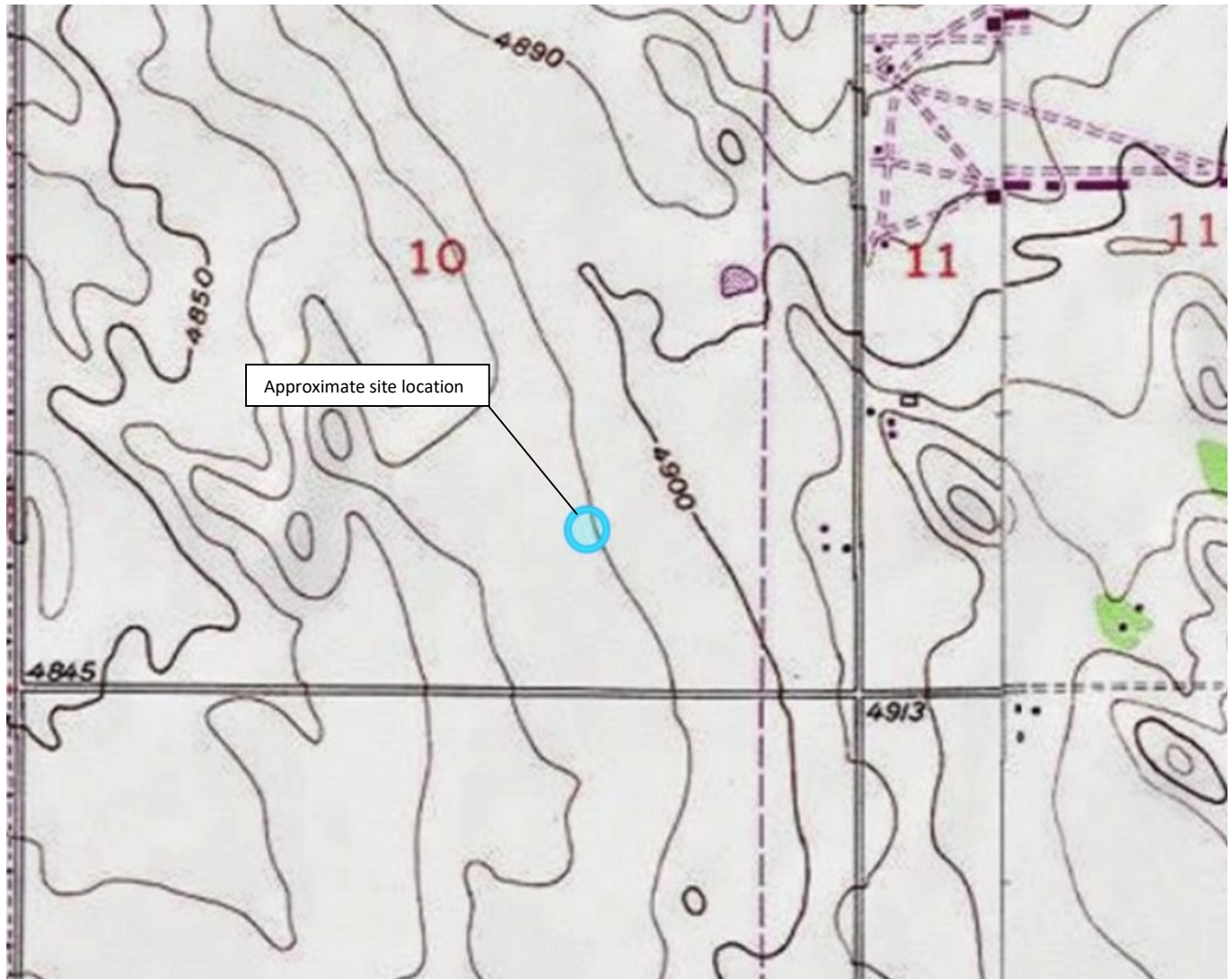


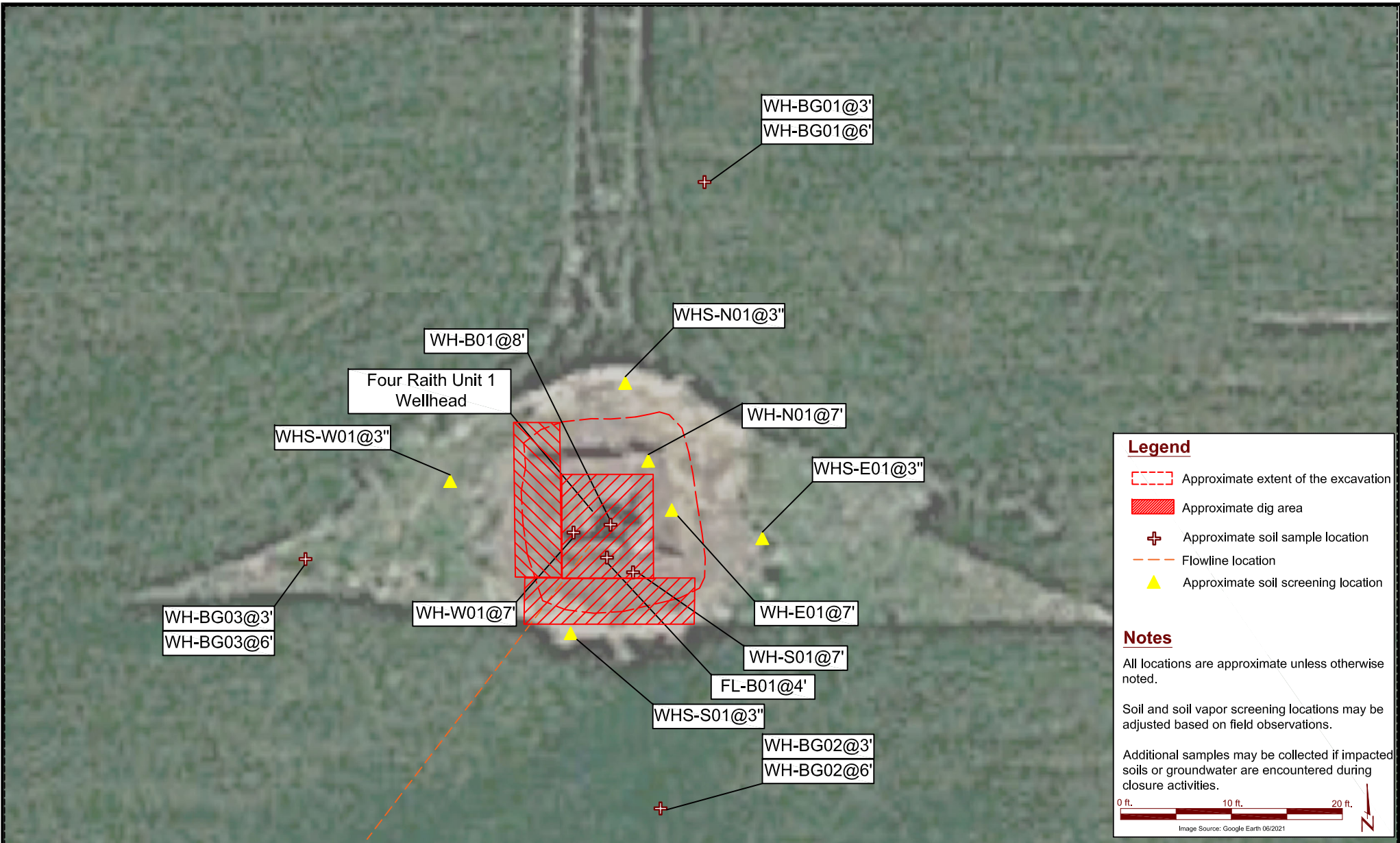
Figure 1

Site Location Map
Kerr-McGee Oil and Gas Onshore LP
Four Raith Unit 1
 SWSE Sec. 10-T3N-R66W
 Weld County, Colorado



Source: USGS 7.5 Minute Topographic Map, Platteville, CO Quadrangle

Drawn By: CW Date: 06/05/2023



Legend

- Approximate extent of the excavation
- Approximate dig area
- + Approximate soil sample location
- Flowline location
- ▲ Approximate soil screening location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 10 ft. 20 ft.
Image Source: Google Earth 06/2021

DATE:	June 21, 2023
DESIGNED BY:	D. Coloccia
DRAWN BY:	C. Windels



Kerr-McGee Oil and Gas Onshore LP
Four Raith Unit 1
 SWSE Sec. 10-T3N-R66W
 Weld County, Colorado

Screening and Sample
Location Map

Figure
2





Production Facility

Four Raith Unit 1 Wellhead

FL-B01@4'

Legend

-  Approximate soil sample location
-  Four Raith Unit 1 flowline location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.



Image Source: Google Earth 06/2021



DATE:	June 21, 2023
DESIGNED BY:	D. Coloccia
DRAWN BY:	C. Windels



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
PH: 303-433-0479 • F: 303-525-5449

Kerr-McGee Oil and Gas Onshore LP
Four Raith Unit 1
SWSE Sec.10-T3N-R66W
Weld County, Colorado

Screening and Sample
Location Map

Figure
3

TABLES

**TABLE 1
FOUR RAITH UNIT 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
Wellhead Soil Samples							
WH-B01 @ 8'	6/20/2023	8	912.8	HC staining	HC odor	40.2349603925325, -104.759887535279	Y
WH-N01 @ 7'	6/20/2023	7	8.7	N.S	N.O	40.234968200844, -104.759880233754	N
WH-S01 @ 7'	6/20/2023	7	1148	N.S	HC odor	40.2349442730342, -104.759883389136	Y
WH-E01 @ 7'	6/20/2023	7	8.2	N.S	N.O	40.2349579985532, -104.759875132872	N
WH-W01 @ 7'	6/20/2023	7	188.6	N.S	HC odor	40.2349538551261, -104.759908332501	Y
WHS-N01 @ 3"	6/20/2023	0.25	4.6	N.S	N.O	40.2350089774368, -104.759877531672	N
WHS-S01 @ 3"	6/20/2023	0.25	4.3	N.S	N.O	40.2349169067524, -104.759921424189	N
WHS-E01 @ 3"	6/20/2023	0.25	5.2	N.S	N.O	40.2349107407873, -104.759824151005	N
WHS-W01 @ 3"	6/20/2023	0.25	3.6	N.S	N.O	40.2349679668813, -104.759959097287	N
Flowline Soil Samples							
FL-B01 @ 4'	6/20/2023	4	568	Slight HC staining	HC odor	40.2349467086565, -104.759895966297	Y
Wellhead Background Soil Samples							
WH-BG01 @ 3'	6/20/2023	3	3.2	N.S	N.O	40.235037537589, -104.75987164288	Y
WH-BG01 @ 6'	6/20/2023	6	3.4	N.S	N.O	40.235037537589, -104.75987164288	Y
WH-BG02 @ 3'	6/20/2023	3	3.2	N.S	N.O	40.2348710612934, -104.759887998805	Y
WH-BG02 @ 6'	6/20/2023	6	2.0	N.S	N.O	40.2348710612934, -104.759887998805	Y
WH-BG03 @ 3'	6/20/2023	3	1.6	N.S	N.O	40.2349482862594, -104.759991610767	Y
WH-BG03 @ 6'	6/20/2023	6	1.7	N.S	N.O	40.2349482862594, -104.759991610767	Y

bgs = below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

BOLD = COGCC Table 915-1 exceedance

N/S = No Staining

N/O = No Odor

HC = hydrocarbon

**TABLE 2
FOUR RAITH UNIT 1
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>COGCC standards for soil (mg/kg)⁽¹⁾</i>		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>COGCC standards for soil (mg/kg)⁽²⁾</i>		1.2	490	5.8	58	500			2	30	27
Wellhead Soil Samples											
WH-B01 @ 8'	06/20/23	0.0120	<0.00200	0.0995	0.770	17.8	569	<100	RP	5.42	0.365
WH-S01 @ 7'	06/20/23	0.00522	<0.00200	0.306	56.9	441	668	<100	RP	<0.00200	<0.00200
WH-W01 @ 7'	06/20/23	<0.00200	<0.00200	0.0188	0.0242	8.18	131	<100	RP	0.0686	0.0163
Flowline Soil Samples											
FL-B01 @ 4'	06/20/23	<0.00200	<0.00200	0.0458	4.83	15.1	823	<100	RP	8.43	3.59

Notes:

⁽¹⁾ COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021 RP = Results Pending

⁽²⁾ COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

**ATTACHMENT A
LABORATORY DATA**



June 21, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Four Raith Unit 1

Project Number - [none]

Attached are your analytical results for KMG - Four Raith Unit 1 received by Origins Laboratory, Inc. June 20, 2023. This project is associated with Origins project number Y306510-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	Y306510-01	Soil	June 20, 2023 14:08	06/20/2023 16:25
WH-S01@7'	Y306510-02	Soil	June 20, 2023 14:12	06/20/2023 16:25
WH-W01@7'	Y306510-03	Soil	June 20, 2023 14:15	06/20/2023 16:25
FL-B01@4'	Y306510-04	Soil	June 20, 2023 14:28	06/20/2023 16:25

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4306510

Client: Eagle

Client Project ID: Four Raith Unit 1

Checklist Completed by: EHS

Shipped Via: TD

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

Date/time completed: 6/20/23

Airbill #: N/A

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

Cooler Number/Temperature: 1/25 °C / °C / °C (Describe)

Thermometer ID: T004

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"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

[Signature]
 Reviewed by (Project Manager)

6/20/23
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 1

WH-B01@8'
6/20/2023 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	569	25.0	mg/kg	1	B3F2031	BWM	06/20/2023	06/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U
<i>Surrogate: o-Terphenyl</i>	82.4 %	50-150			"	"	"	"	

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.42	0.0500	mg/kg	25	B3F2029	JSM	06/20/2023	06/21/2023	
1,3,5-Trimethylbenzene	0.365	0.00200	"	1	"	JSM	"	06/21/2023	
Benzene	0.0120	0.00200	"	"	"	JSM	"	"	
Ethylbenzene	0.0995	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	0.770	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	17.8	0.200	"	"	"	JSM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	86.1 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	95.8 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	93.3 %	70-130			"	"	"	"	

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 1

WH-S01@7'
6/20/2023 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	668	25.0	mg/kg	1	B3F2031	BWM	06/20/2023	06/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U
<i>Surrogate: o-Terphenyl</i>	84.1 %	50-150			"	"	"	"	

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2029	JSM	06/20/2023	06/21/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	0.00522	0.00200	"	"	"	JSM	"	"	
Ethylbenzene	0.306	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	56.9	0.00200	"	"	"	JSM	"	06/21/2023	
Gasoline Range Hydrocarbons	441	5.00	"	25	"	JSM	"	06/21/2023	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	89.0 %	70-130			"	"	"	06/21/2023	
<i>Surrogate: Toluene-d8</i>	93.0 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	116 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 1

WH-W01@7'
6/20/2023 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306510-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	131	25.0	mg/kg	1	B3F2031	BWM	06/20/2023	06/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: *o*-Terphenyl 73.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0686	0.00200	mg/kg	1	B3F2029	JSM	06/20/2023	06/21/2023	
1,3,5-Trimethylbenzene	0.0163	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	0.0188	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	0.0242	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	8.18	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "
 Surrogate: Toluene-d8 96.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 1

FL-B01@4'
 6/20/2023 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y306510-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	823	25.0	mg/kg	1	B3F2031	BWM	06/20/2023	06/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U
<i>Surrogate: o-Terphenyl</i>	75.1 %	50-150			"	"	"	"	

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	8.43	0.0500	mg/kg	25	B3F2029	JSM	06/20/2023	06/21/2023	
1,3,5-Trimethylbenzene	3.59	0.0500	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	1	"	JSM	"	06/21/2023	U
Ethylbenzene	0.0458	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	4.83	0.0500	"	25	"	JSM	"	06/21/2023	
Gasoline Range Hydrocarbons	15.1	0.200	"	1	"	JSM	"	06/21/2023	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	86.3 %	70-130			"	"	"	06/21/2023	
<i>Surrogate: Toluene-d8</i>	99.4 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	88.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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 B3F2029 - EPA 5030 (soil)

Blank (B3F2029-BLK1)

Prepared: 06/20/2023 Analyzed: 06/20/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.4	70-130			

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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 B3F2029 - EPA 5030 (soil)

LCS (B3F2029-BS1)

Prepared: 06/20/2023 Analyzed: 06/20/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0938	0.00380	"	0.100		93.8	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.6	70-130			

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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 B3F2029 - EPA 5030 (soil)

Matrix Spike (B3F2029-MS1)	Source: Y306497-01			Prepared: 06/20/2023 Analyzed: 06/20/2023						
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Benzene	0.115	0.00200	"	0.100	ND	115	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.217	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.6	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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 B3F2029 - EPA 5030 (soil)

Matrix Spike Dup (B3F2029-MSD1)	Source: Y306497-01			Prepared: 06/20/2023 Analyzed: 06/20/2023						
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	1.54	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	1.55	20	
Benzene	0.114	0.00200	"	0.100	ND	114	70-130	0.719	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	1.39	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	3.10	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	1.20	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	1.62	20	
m,p-Xylene	0.213	0.00400	"	0.200	ND	106	70-130	1.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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
Batch B3F2031 - EPA 3550B										
Blank (B3F2031-BLK1)										
					Prepared: 06/20/2023 Analyzed: 06/20/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		74.9	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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 B3F2031 - EPA 3550B

LCS (B3F2031-BS1)

Prepared: 06/20/2023 Analyzed: 06/20/2023

Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000		88.7	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.0	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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 B3F2031 - EPA 3550B										
Matrix Spike (B3F2031-MS1)		Source: Y306509-01			Prepared: 06/20/2023 Analyzed: 06/20/2023					
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000	ND	88.4	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.4	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Four Raith Unit 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 B3F2031 - EPA 3550B										
Matrix Spike Dup (B3F2031-MSD1)					Source: Y306509-01					Prepared: 06/20/2023 Analyzed: 06/20/2023
Diesel (C10-C28)	836	50.0	mg/kg	1000	ND	83.6	70-130	2.57	35	
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130	2.48	35	
Surrogate: o-Terphenyl	42		"	49.8		83.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Four Raith Unit 1

Notes and Definitions

U Sample is Non-Detect.

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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ATTACHMENT B
FIELD NOTES AND PHOTOGRAPHIC LOG

Wellhead Closure Checklist 2

Additional Attachments (Optional)

Site Name	Four Raith Unit 1
Remediation Project #	29090

Wellhead Information

Weather	85, sunny
Client	Oxy
Location	
Latitude	40.23495
Longitude	-104.75989
General Condition of Site	Good condition
USCS Soil Type	Sandy Loam / Sandy Loam
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	HC impacted soil encountered
Salt Crusted Soils or Impacted Vegetation	None encountered

Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R1	06/20/2023	02:08 PM	WH-B01@8'	912.8	HC Staining	HC Odor	Wellhead
R2	06/20/2023	02:10 PM	WH-N01@7'	8.7	N.S	N.O	Wellhead
R3	06/20/2023	02:12 PM	WH-S01@7'	1148	N.S	HC Odor	Wellhead
R4	06/20/2023	02:13 PM	WH-E01@7'	8.2	N.S	N.O	Wellhead
R5	06/20/2023	02:15 PM	WH-W01@7'	188.6	N.S	HC Odor	Wellhead
R6	06/20/2023	02:16 PM	WHS-N01@3"	4.6	N.S	N.O	Wellhead Surface
R7	06/20/2023	02:17 PM	WHS-S01@3"	4.3	N.S	N.O	Wellhead Surface
R8	06/20/2023	02:18 PM	WHS-E01@3"	5.2	N.S	N.O	Wellhead Surface
R9	06/20/2023	02:19 PM	WHS-W01@3"	3.6	N.S	N.O	Wellhead Surface
R10	06/20/2023	02:20 PM	WH-BG01@3'	3.2	N.S	N.O	Wellhead Background
R11	06/20/2023	02:21 PM	WH-BG01@6'	3.4	N.S	N.O	Wellhead Background
R12	06/20/2023	02:23 PM	WH-BG02@3'	3.2	N.S	N.O	Wellhead Background
R13	06/20/2023	02:24 PM	WH-BG02@6'	2.0	N.S	N.O	Wellhead Background
R14	06/20/2023	02:25 PM	WH-BG03@3'	1.6	N.S	N.O	Wellhead Background
R15	06/20/2023	02:26 PM	WH-BG03@6'	1.7	N.S	N.O	Wellhead Background
R16	06/20/2023	02:28 PM	FL-B01@4'	568.2	Slight HC Staining	HC Odor	Flowline at Wellhead

Photo(s)

R1 - P1



Looking southeast

R2 - P1



Looking north

R6 - P1



Looking southeast

R7 - P1



Looking northwest

Other observations regarding wellheads

Summary	
Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	16
Total number of soil samples collected	16
Highest PID Reading	1148
Total number of soil samples submitted to lab for analysis	10
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	
Date Groundwater was encountered	
Commencement date of removal	
Sheen on groundwater?	

Free product observed?

Volume of groundwater removed prior to sampling

Volume of groundwater removed post sampling

Total volume of groundwater removed

Total number of groundwater samples collected

Total number of groundwater samples submitted to lab for analysis

**ATTACHMENT C
STATE NOTIFICATION**



FW: State Reportable Release 24 Hour Notification - FOUR RAITH UNIT 1

1 message

From: Ochoa, Ariana

Sent: Wednesday, June 21, 2023 1:35 PM

To: 'alexander.ahmadian@state.co.us' <alexander.ahmadian@state.co.us>; 'Jason Maxey' <jmaxey@weldgov.com>; 'Roy Rudisill (rrudisill@co.weld.co.us)' <rrudisill@co.weld.co.us>

Cc: Hamilton, Gregory <Gregory_Hamilton@oxy.com>; Scranton, Lynna <Lynna_Scranton@oxy.com>; Mickelson, Erik <Erik_Mickelson@oxy.com>; Rowley, Taylor <Taylor_Rowley@oxy.com>; Bugarin, Eve (New Tech Global Rig Personnel LLC) <Eve_Bugarin@oxy.com>; Lytle, Andy <Andrew_Lytle@oxy.com>; Jobe, Don <Don_Jobe@oxy.com>; Grage, Mark <Mark_Grage@oxy.com>; Bartoszek, Jaron (Swift Technical Services LLC) <Jaron_Bartoszek@oxy.com>; Brice, Jennifer <Jennifer_Brice@oxy.com>; Neely, Dewey (Platteville) <Dewey_Neely2@oxy.com>; Coleman, Julie <Julie_Coleman@oxy.com>; Riemer, Joseph <Joseph_Riemer@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>; Mathes, Robert <Robert_Mathes@oxy.com>; Hamlin, Mark G <Mark_Hamlin@oxy.com>; 'Marshall, Shayelyn' <Shayelyn_marshall@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>

Subject: State Reportable Release 24 Hour Notification - FOUR RAITH UNIT 1

Good afternoon,

We identified a state reportable release following the identification of historically impacted soil of an unknown volume. This release was not an active release. A Form 19 Release Report is forthcoming. This release did not threaten Waters of the State, Public Water System, residences or occupied structures, livestock, wildlife, air quality, or publicly-maintained roads.

The following have been notified via specified method below:

- Weld County contacted via electronic mail
- Surface Owner notification in process

The Environmental Release/Incident Report Hotline and Colorado Parks and Wildlife was not contacted as this release did not trigger notification requirements per 912.b.(2)B.

Location Details:

- Wellhead Name: FOUR RAITH UNIT 1
- Location: SWSE 10 3N 66W
- Latitude/Longitude: 40.234950, -104.759890
- Location ID: 05-123-15034

Please let me know if you have any questions.

Thank you,

Ariana Ochoa

HSE Advisor

Occidental Petroleum Corporation

t: (970) 515-1216