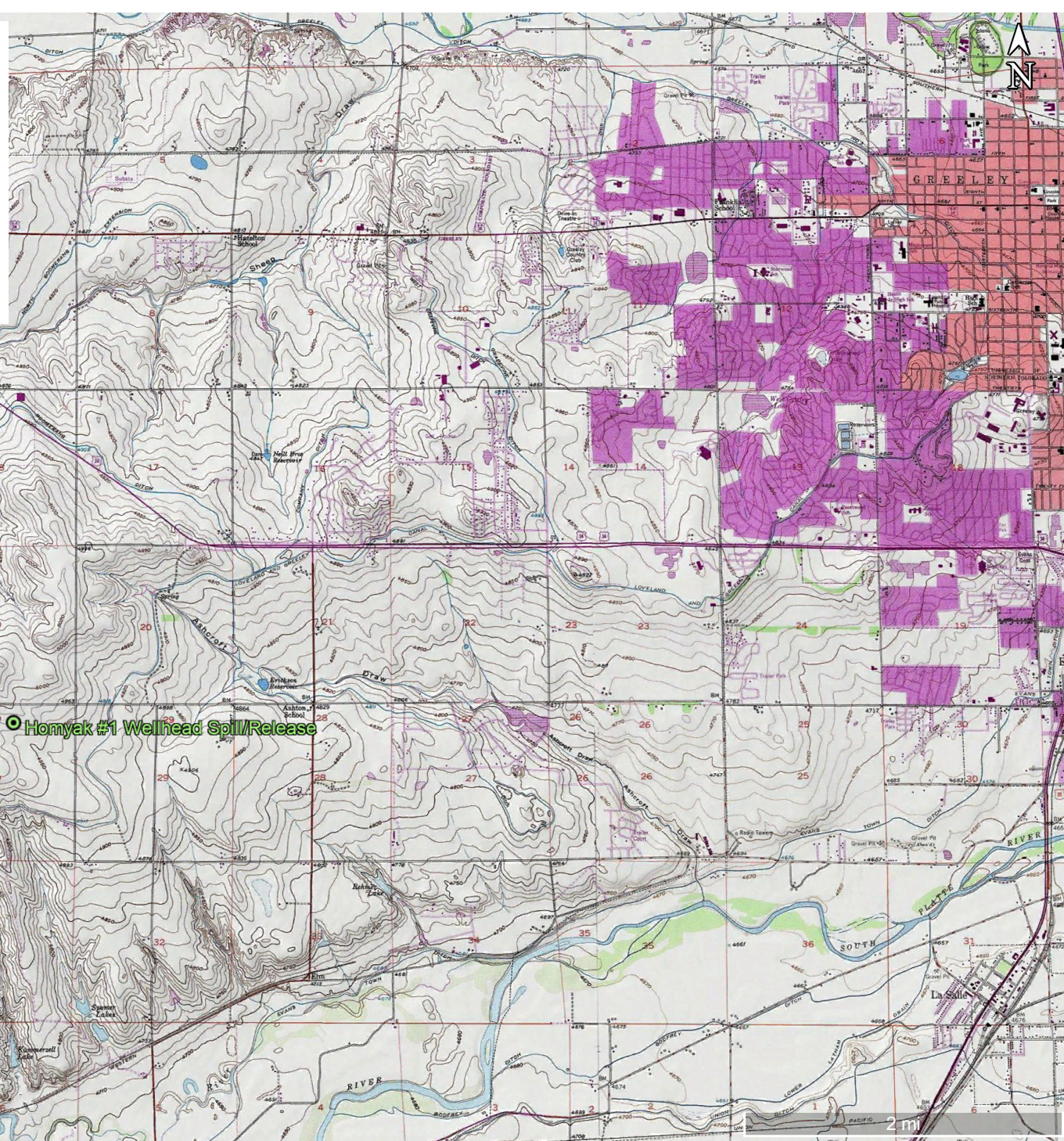
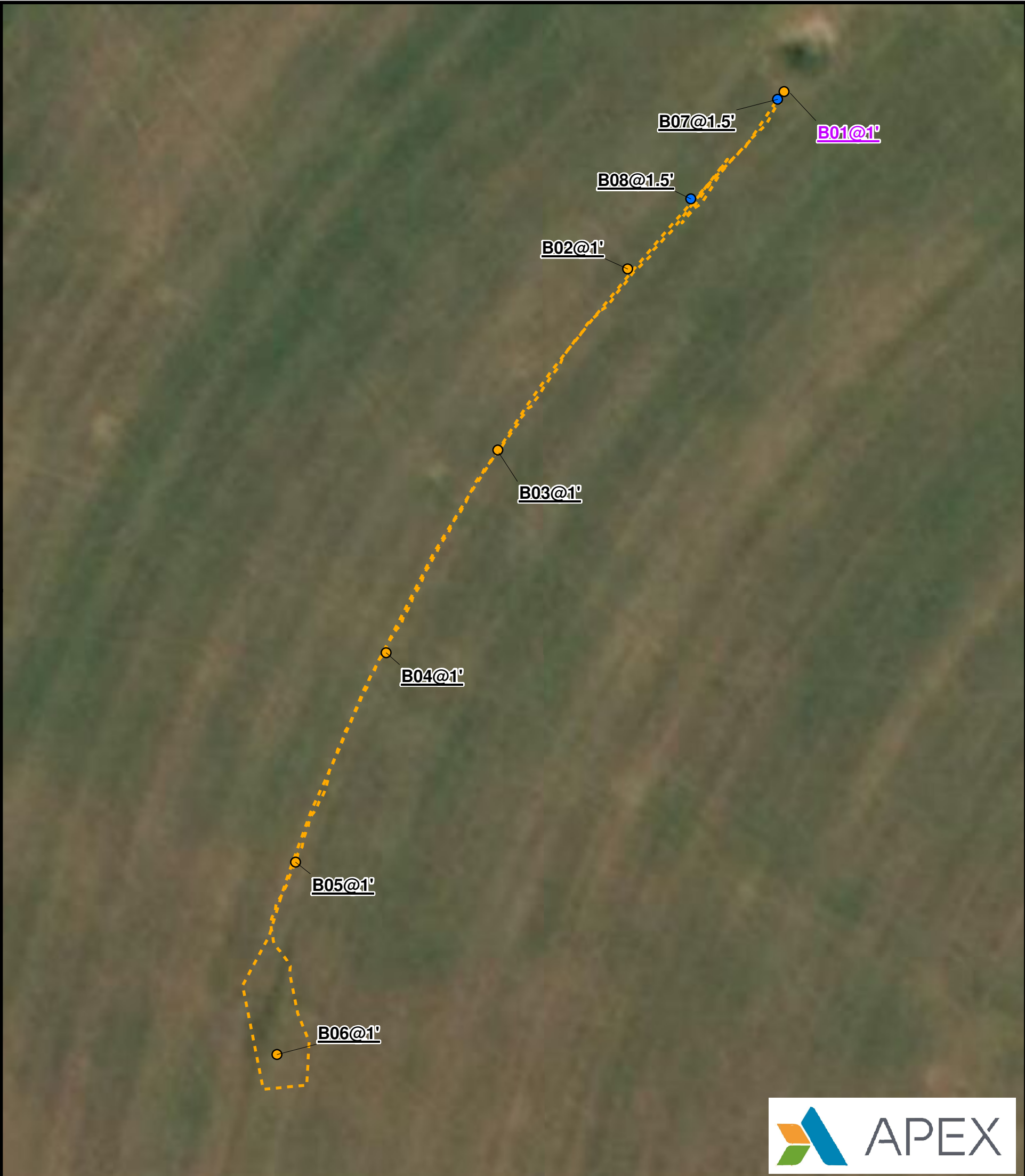




**Topographic Location  
Map  
"Homyak #1 Wellhead"**





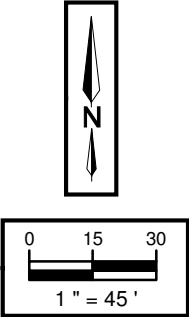
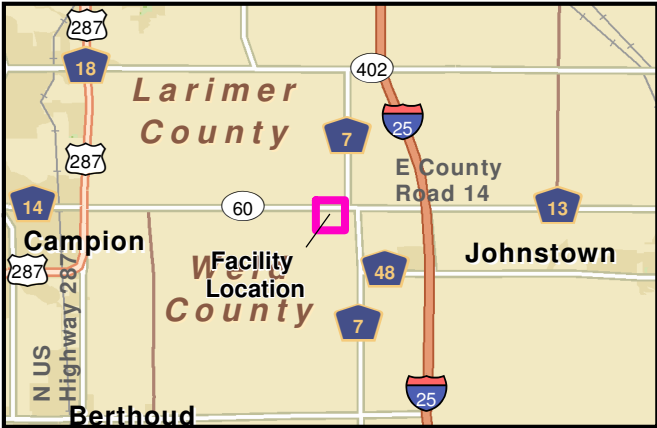
**Extraction Oil & Gas**  
**Homyak #1 Wellhead**  
**Well API No: 05-123-11105**  
**Site Diagram**

Legal Description: NWNE, Sec 30, T5N R66W  
County: Weld  
Land Use: Cropland  
Topography: 3-5% Slopes  
Run-Off Risk: Low  
Soil Type: Olney fine sandy loam  
Receiving Waters: Loveland and Greeley Canal

- Soil Sample - With Lab Analysis (10/21/2019)
- Soil Sample - With Lab Analysis (10/23/2019)
- - - Spill/Release Footprint

\* Sample ID in Purple font indicates a regulatory exceedance.

Sample ID	Latitude NAD83	Longitude NAD83
B08@1.5'	40.375723	-104.820320
B07@1.5'	40.375844	-104.820182
B01@1'	40.375853	-104.820171
B06@1'	40.374680	-104.820981
B05@1'	40.374915	-104.820951
B04@1'	40.375170	-104.820806
B03@1'	40.375417	-104.820628
B02@1'	40.375637	-104.820421



SOIL SAMPLE RESULTS									
		Organics (mg/kg)					(mmhos/cm)	Units	(pH Units)
COGCC Allowable Concentration (Soil) -->		500	0.17	85	100	175	4	12	(6-9)
Sample Date	Sample ID	TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (Specific Conductance) (≤4 mmhos/cm@ 2x background)	SAR (Sodium Adsorption Ratio) (calculation)	pH
10/21/19	B01@1	82	0.76	2.0	1.2	5.6			
10/21/19	B02@1	<50	<0.0020	0.0066	<0.0050	<0.010			
10/21/19	B03@1	<50	<0.0020	0.010	<0.0050	<0.010			
10/21/19	B04@1	<50	0.0031	0.019	<0.0050	0.016			
10/21/19	B05@1	9.1	0.059	0.88	0.059	0.89			
10/21/19	B06@1	0.54	0.0078	0.13	0.0091	0.14			
10/23/19	B07@1.5	0.68	0.0031	0.0052	<0.0050	0.022			
10/23/19	B08@1.5	2.4	0.0056	0.16	0.024	0.33			



## Laboratory Results Summary Table - Soil Homyak #1 Wellhead

			Organics (mg/kg)					(mmhos/cm)	Units	(pH Units)
COGCC Allowable Concentration (Soil) -->			500	0.17	85	100	175	4	12	(6-9)
Location	Sample Date	Sample ID	TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (Specific Conductance) (<4 mmhos/cm or 2x background)	SAR (Sodium Adsorption Ratio) (calculation)	pH
Homyak #1 Spill Response	10/21/19	B01@1	82	0.76	2.0	1.2	5.6	1.05	0.714	7.85
Homyak #1 Spill Response	10/21/19	B02@1	<50	<0.0020	0.0066	<0.0050	<0.010			
Homyak #1 Spill Response	10/21/19	B03@1	<50	<0.0020	0.010	<0.0050	<0.010			
Homyak #1 Spill Response	10/21/19	B04@1	<50	0.0031	0.019	<0.0050	0.016			
Homyak #1 Spill Response	10/21/19	B05@1	9.1	0.059	0.88	0.059	0.89			
Homyak #1 Spill Response	10/21/19	B06@1	0.54	0.0078	0.13	0.0091	0.14			
Homyak #1 Spill Response	10/23/19	B07@1.5	0.68	0.0031	0.0052	<0.0050	0.022			
Homyak #1 Spill Response	10/23/19	B08@1.5	2.4	0.0056	0.16	0.024	0.33			

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 22, 2019

Maggie Graham

Extraction Oil&Gas

370 17th Street Suite 5300

Denver, CO 80202

RE: Homyak #1 Spill Response

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/19 17:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury

Laboratory Manager



Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@1	1910246-01	Soil	10/21/19 13:07	10/21/19 17:22
B02@1	1910246-02	Soil	10/21/19 13:12	10/21/19 17:22
B03@1	1910246-03	Soil	10/21/19 13:17	10/21/19 17:22
B04@1	1910246-04	Soil	10/21/19 13:21	10/21/19 17:22
B05@1	1910246-05	Soil	10/21/19 13:24	10/21/19 17:22
B06@1	1910246-06	Soil	10/21/19 13:28	10/21/19 17:22

Summit Scientific

*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.*

910246

Page 1 of 1

**Sampler Name:** AB

Project Number: 199/2600092088

**www.s2scientific.com**

# Sample Receipt Checklist

S2 Work Order 1910246

Client: Apex / X06 Client Project ID: Homyak #1 Spill Response

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

Matrix (check all that apply):    Air    ☒ Soil/Solid    Water    Other: \_\_\_\_\_  
(Describe)

Temp (°C)	<u>5.5</u>
-----------	------------

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

AT  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

10-21-19 1722  
Date/Time



Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**B01@1**  
**1910246-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.76	0.020	mg/kg	10	1910303	10/21/19	10/22/19	EPA 8260B	
Toluene	2.0	0.050	"	"	"	"	"	"	
Ethylbenzene	1.2	0.050	"	"	"	"	"	"	
Xylenes (total)	5.6	0.10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	82	5.0	"	"	"	"	"	"	

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1910304	10/21/19	10/21/19	EPA 8015M	

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		99.5 %	30-150		"	"	"	"	

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

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1360	11.2	mg/kg dry	1	1910315	10/22/19	10/22/19	EPA 6020B	
Magnesium	606	5.62	"	"	"	"	"	"	
Sodium	126	5.62	"	"	"	"	"	"	

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**B01@1**  
**1910246-01 (Soil)**

**Summit Scientific**

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

**Calculated Analysis**

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.714</b>	0.100	units	1	1910307	10/22/19	10/22/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>88.9</b>		%	1	1910314	10/22/19	10/22/19	Calculation	
pH	<b>7.85</b>		pH Units	"	1910312	10/22/19	10/22/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **10/21/19 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.05</b>	0.0100	mmhos/cm	1	1910313	10/22/19	10/22/19	EPA 120.1	

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**B02@1**  
**1910246-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/19 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1910303	10/21/19	10/21/19	EPA 8260B	
<b>Toluene</b>	<b>0.0066</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/19 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/19 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1910304	10/21/19	10/21/19	EPA 8015M	

Date Sampled: **10/21/19 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.4 %	30-150		"	"	"	"	

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response  
Project Number: 1992600093088  
Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**B03@1**  
**1910246-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/19 13:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1910303	10/21/19	10/21/19	EPA 8260B	
<b>Toluene</b>	<b>0.010</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/19 13:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/19 13:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1910304	10/21/19	10/21/19	EPA 8015M	

Date Sampled: **10/21/19 13:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**B04@1**  
**1910246-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/19 13:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>0.0031</b>	0.0020	mg/kg	1	1910303	10/21/19	10/21/19	EPA 8260B	
<b>Toluene</b>	<b>0.019</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.016</b>	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/19 13:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/19 13:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1910304	10/21/19	10/21/19	EPA 8015M	

Date Sampled: **10/21/19 13:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		95.5 %	30-150		"	"	"	"	

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response  
Project Number: 1992600093088  
Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**B05@1**  
**1910246-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/19 13:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>0.059</b>	0.0020	mg/kg	1	1910303	10/21/19	10/22/19	EPA 8260B	
<b>Toluene</b>	<b>0.88</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.059</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.89</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>9.1</b>	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/19 13:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.1 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/19 13:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1910304	10/21/19	10/21/19	EPA 8015M	

Date Sampled: **10/21/19 13:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>		98.0 %	30-150		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**B06@1**  
**1910246-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/21/19 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.0078</b>	0.0020	mg/kg	1	1910303	10/21/19	10/22/19	EPA 8260B	
<b>Toluene</b>	<b>0.13</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.0091</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.14</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.54</b>	0.50	"	"	"	"	"	"	

Date Sampled: **10/21/19 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.8 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.2 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/21/19 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1910304	10/21/19	10/21/19	EPA 8015M	

Date Sampled: **10/21/19 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		94.6 %	30-150		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch 1910303 - EPA 5030 Soil MS

##### Blank (1910303-BLK1)

Prepared: 10/21/19 Analyzed: 10/22/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		98.1	23-173			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.4	21-167			

##### LCS (1910303-BS1)

Prepared: 10/21/19 Analyzed: 10/22/19

Benzene	0.114	0.0020	mg/kg	0.150		76.2	70-130			
Toluene	0.122	0.0050	"	0.150		81.2	70-130			
Ethylbenzene	0.137	0.0050	"	0.150		91.4	70-130			
m,p-Xylene	0.256	0.010	"	0.300		85.3	70-130			
o-Xylene	0.125	0.0050	"	0.150		83.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.2	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.1	21-167			

##### Matrix Spike (1910303-MS1)

Source: 1910246-02

Prepared: 10/21/19 Analyzed: 10/22/19

Benzene	0.115	0.0020	mg/kg	0.150	ND	76.5	70-130			
Toluene	0.129	0.0050	"	0.150	0.00663	81.8	70-130			
Ethylbenzene	0.137	0.0050	"	0.150	ND	91.3	70-130			
m,p-Xylene	0.264	0.010	"	0.300	0.00747	85.4	70-130			
o-Xylene	0.126	0.0050	"	0.150	ND	84.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.8	23-173			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	21-167			

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch 1910303 - EPA 5030 Soil MS

Matrix Spike Dup (1910303-MSD1)	Source: 1910246-02			Prepared: 10/21/19 Analyzed: 10/22/19						
Benzene	0.117	0.0020	mg/kg	0.150	ND	78.3	70-130	2.22	30	
Toluene	0.132	0.0050	"	0.150	0.00663	83.3	70-130	1.66	30	
Ethylbenzene	0.139	0.0050	"	0.150	ND	92.6	70-130	1.44	30	
m,p-Xylene	0.266	0.010	"	0.300	0.00747	86.1	70-130	0.827	30	
o-Xylene	0.128	0.0050	"	0.150	ND	85.5	70-130	1.75	30	
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.8	23-173			
Surrogate: Toluene-d8	0.0384		"	0.0400		95.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	21-167			

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1910304 - EPA 3550A**

**Blank (1910304-BLK1)**

Prepared: 10/21/19 Analyzed: 10/22/19

C10-C28 (DRO) ND 50 mg/kg

**LCS (1910304-BS1)**

Prepared: 10/21/19 Analyzed: 10/22/19

C10-C28 (DRO) 448 50 mg/kg 500 89.6 70-130

**Matrix Spike (1910304-MS1)**

**Source: 1910246-02**

Prepared: 10/21/19 Analyzed: 10/22/19

C10-C28 (DRO) 446 50 mg/kg 500 40.8 81.0 70-130

**Matrix Spike Dup (1910304-MSD1)**

**Source: 1910246-02**

Prepared: 10/21/19 Analyzed: 10/22/19

C10-C28 (DRO) 443 50 mg/kg 500 40.8 80.5 70-130 0.603 20

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

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

**Summit Scientific**

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

**Batch 1910315 - General Preparation**

**Blank (1910315-BLK1)**

Prepared & Analyzed: 10/22/19

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

**LCS (1910315-BS1)**

Prepared & Analyzed: 10/22/19

Calcium	565	10.0	mg/kg wet	500	113	70-130
Magnesium	600	5.00	"	500	120	70-130
Sodium	566	5.00	"	500	113	70-130

**Duplicate (1910315-DUP1)**

Source: 1910225-03

Prepared & Analyzed: 10/22/19

Calcium	27200	12.2	mg/kg dry	25000	8.59	20
Magnesium	1490	6.08	"	1410	5.76	20
Sodium	861	6.08	"	864	0.375	20

**Matrix Spike (1910315-MS1)**

Source: 1910225-03

Prepared & Analyzed: 10/22/19

Calcium	25700	12.2	mg/kg dry	608	25000	116	70-130
Magnesium	1960	6.08	"	608	1410	90.9	70-130
Sodium	1560	6.08	"	608	864	115	70-130

**Matrix Spike Dup (1910315-MSD1)**

Source: 1910225-03

Prepared & Analyzed: 10/22/19

Calcium	25700	12.2	mg/kg dry	608	25000	115	70-130	0.0240	25
Magnesium	1960	6.08	"	608	1410	91.8	70-130	0.280	25
Sodium	1590	6.08	"	608	864	120	70-130	2.14	25

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

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

#### Summit Scientific

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

#### Batch 1910312 - General Preparation

##### LCS (1910312-BS1)

Prepared & Analyzed: 10/22/19

pH	9.19	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

##### Duplicate (1910312-DUP1)

Source: 1910159-01

Prepared & Analyzed: 10/22/19

pH	9.43	pH Units	9.41	0.212	20
----	------	----------	------	-------	----

#### Batch 1910314 - General Preparation

##### Duplicate (1910314-DUP1)

Source: 1910246-01

Prepared & Analyzed: 10/22/19

% Solids	86.4	%	88.9	2.91	20
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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

### Specific Conductance by EPA Method 120.1 - Quality Control

#### Summit Scientific

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

#### Batch 1910313 - General Preparation

##### Blank (1910313-BLK1)

Prepared & Analyzed: 10/22/19

Specific Conductance (EC) ND 0.0100 mmhos/cm

##### LCS (1910313-BS1)

Prepared & Analyzed: 10/22/19

Specific Conductance (EC) 0.754 0.0100 mmhos/cm 0.750 100 90-110

##### Duplicate (1910313-DUP1)

Source: 1910159-01

Prepared & Analyzed: 10/22/19

Specific Conductance (EC) 0.788 0.0100 mmhos/cm 0.789 0.127 20

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088  
Project Manager: Maggie Graham

**Reported:**  
10/22/19 15:55

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 24, 2019

Maggie Graham

Extraction Oil&Gas

370 17th Street Suite 5300

Denver, CO 80202

RE: Homyak #1 Spill Response

Enclosed are the results of analyses for samples received by Summit Scientific on 10/23/19 16:44. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**

10/24/19 06:43

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B07@1.5	1910284-01	Soil	10/23/19 15:45	10/23/19 16:44
B08@1.5	1910284-02	Soil	10/23/19 14:00	10/23/19 16:44

Summit Scientific

*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.*

1910284

Page 1 of 1

Project Number: 1992 600093088

**www.s2scientific.com**

# Sample Receipt Checklist

S2 Work Order 1910284

Client: Apex Companies, LLC Client Project ID: HOMYAKI Spill Response

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

Matrix (check all that apply):      Air X Soil/Solid      Water      Other: \_\_\_\_\_  
(Describe)

Temp (°C)	<u>5.8</u>
-----------	------------

Thermometer ID: 61857155-K

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

122  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

10/23/19  
Date/Time 1648



Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/24/19 06:43

**B07@1.5**  
**1910284-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Benzene</b>	<b>0.0031</b>	0.0020	mg/kg	1	1910352	10/23/19	10/23/19	EPA 8260B	
<b>Toluene</b>	<b>0.0052</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.022</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.68</b>	0.50	"	"	"	"	"	"	

Date Sampled: **10/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		83.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1910353	10/23/19	10/23/19	EPA 8015M	

Date Sampled: **10/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		76.9 %	30-150		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/24/19 06:43

**B08@1.5**  
**1910284-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/23/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>0.0056</b>	0.0020	mg/kg	1	1910352	10/23/19	10/23/19	EPA 8260B	
<b>Toluene</b>	<b>0.16</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.024</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.33</b>	0.010	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2.4</b>	0.50	"	"	"	"	"	"	

Date Sampled: **10/23/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		108 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.2 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/23/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1910353	10/23/19	10/23/19	EPA 8015M	

Date Sampled: **10/23/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>		76.5 %	30-150		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/24/19 06:43

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch 1910352 - EPA 5030 Soil MS

##### Blank (1910352-BLK1)

Prepared: 10/23/19 Analyzed: 10/24/19

Benzene	ND	0.0020	mg/kg						
Toluene	ND	0.0050	"						
Ethylbenzene	ND	0.0050	"						
Xylenes (total)	ND	0.010	"						
Gasoline Range Hydrocarbons	ND	0.50	"						
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.7	23-173		
Surrogate: Toluene-d8	0.0460		"	0.0400		115	20-170		
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.7	21-167		

##### LCS (1910352-BS1)

Prepared: 10/23/19 Analyzed: 10/24/19

Benzene	0.116	0.0020	mg/kg	0.150		77.4	70-130		
Toluene	0.133	0.0050	"	0.150		88.6	70-130		
Ethylbenzene	0.140	0.0050	"	0.150		93.2	70-130		
m,p-Xylene	0.271	0.010	"	0.300		90.2	70-130		
o-Xylene	0.125	0.0050	"	0.150		83.6	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		97.0	23-173		
Surrogate: Toluene-d8	0.0429		"	0.0400		107	20-170		
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	21-167		

##### Matrix Spike (1910352-MS1)

Source: 1910281-01

Prepared: 10/23/19 Analyzed: 10/24/19

Benzene	0.123	0.0020	mg/kg	0.150	0.00786	76.4	70-130		
Toluene	0.140	0.0050	"	0.150	ND	93.4	70-130		
Ethylbenzene	0.133	0.0050	"	0.150	ND	88.8	70-130		
m,p-Xylene	0.260	0.010	"	0.300	0.0339	75.4	70-130		
o-Xylene	0.122	0.0050	"	0.150	0.00381	78.9	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.2	23-173		
Surrogate: Toluene-d8	0.0448		"	0.0400		112	20-170		
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.0	21-167		

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/24/19 06:43

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch 1910352 - EPA 5030 Soil MS

Matrix Spike Dup (1910352-MSD1)	Source: 1910281-01			Prepared: 10/23/19 Analyzed: 10/24/19						
Benzene	0.127	0.0020	mg/kg	0.150	0.00786	79.2	70-130	3.32	30	
Toluene	0.119	0.0050	"	0.150	ND	79.1	70-130	16.6	30	
Ethylbenzene	0.122	0.0050	"	0.150	ND	81.5	70-130	8.62	30	
m,p-Xylene	0.244	0.010	"	0.300	0.0339	70.1	70-130	6.25	30	
o-Xylene	0.126	0.0050	"	0.150	0.00381	81.2	70-130	2.78	30	
Surrogate: 1,2-Dichloroethane-d4	0.0211		"	0.0400		52.8	23-173			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0299		"	0.0400		74.8	21-167			

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088

Project Manager: Maggie Graham

**Reported:**  
10/24/19 06:43

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1910353 - EPA 3550A**

**Blank (1910353-BLK1)**

Prepared: 10/23/19 Analyzed: 10/24/19

C10-C28 (DRO) ND 50 mg/kg

**LCS (1910353-BS1)**

Prepared: 10/23/19 Analyzed: 10/24/19

C10-C28 (DRO) 469 50 mg/kg 500 93.7 70-130

**Matrix Spike (1910353-MS1)**

**Source: 1910281-01**

Prepared: 10/23/19 Analyzed: 10/24/19

C10-C28 (DRO) 487 50 mg/kg 500 53.7 86.7 70-130

**Matrix Spike Dup (1910353-MSD1)**

**Source: 1910281-01**

Prepared: 10/23/19 Analyzed: 10/24/19

C10-C28 (DRO) 478 50 mg/kg 500 53.7 84.8 70-130 1.98 20

Summit Scientific

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Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Homyak #1 Spill Response

Project Number: 1992600093088  
Project Manager: Maggie Graham

**Reported:**  
10/24/19 06:43

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference