

Company Name: **PADCO, LLC**

Facility Name: **Gulley 1-D**

Attachment A

Initial Sample Results

Prepared for:
PADCO, LLC

Prepared by:
Lesair Environmental, Inc.
www.Lesair.com

Gulley 1-D Historical Pit
PADCO LLC
Analytical Results

Sample Date	Sampled By	Sample Depth	Soil Sample ID	pH	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)
---	---	(ft)	Table 9-10 Limits	6-9	500	0.17	85	100	175
10/2/2020	Lesair	9'-0"	#1@9'-0"	9.72	2,837	ND	ND	ND	ND
10/2/2020	Lesair	6'-0"	#1@6'-0"	8.55	274	ND	ND	ND	ND
10/2/2020	Lesair	10'-0"	#2@10'-0"	8.94	3,798	ND	ND	ND	ND
10/2/2020	Lesair	9'-0"	#2@9'-0"	8.50	10,737	ND	ND	ND	ND
10/2/2020	Lesair	6'-0"	#2@6'-0"	8.03	27,108	ND	ND	ND	ND
10/2/2020	Lesair	8'-8"	#3@8'-8"	8.52	ND	---	---	---	---
10/2/2020	Lesair	7'-8"	#3@7'-8" *	HOLD	HOLD	HOLD	HOLD	HOLD	HOLD
10/2/2020	Lesair	8'-1"	#4@8'-1"	9.41	1,370	---	---	---	---
10/2/2020	Lesair	8'-0"	#5@8'-0"	8.72	1,150	---	---	---	---
10/2/2020	Lesair	8'-10"	#6@8'-10"	9.52	ND	---	---	---	---

GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)
---	---	---
37	2200	600
ND	200	74
8	2900	890
37	8500	2200
8	21000	6100
ND	ND	ND
HOLD	HOLD	HOLD
ND	990	380
ND	840	310
ND	ND	ND

Laboratory Reporting Limits	
Benzene	0.002
Toluene	0.005
Ethylbenzene	0.005
Xylenes	0.01
GRO	0.5
DRO	50
ORO	50

Table 9-10 Thresholds	
Benzene	0.17
Toluene	85
Ethylbenzene	100
Xylenes	175
TPH	500
pH	6-9

NOTES:

Shaded values exceed COGCC Table 9-10 threshold values

* Sample #3@7'-8" was not analyzed

Company Name: **PADCO, LLC**

Facility Name: **Gulley 1-D**

Attachment B

Location Site Imagery

Attachment B1 - Sample Point Locations

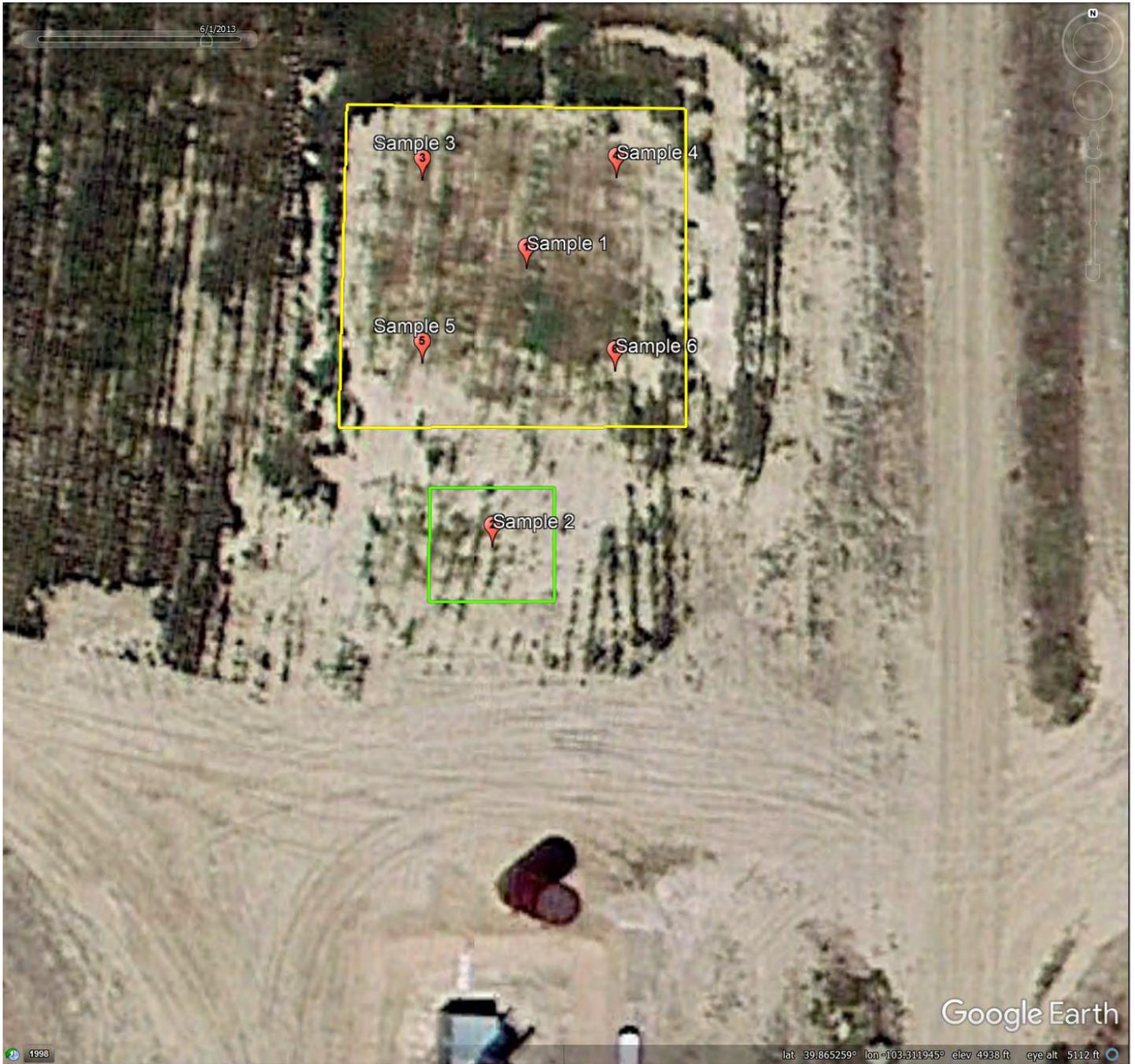
Attachment B2 - Historic Pit Locations

Prepared for:
PADCO, LLC

Prepared by:
Lesair Environmental, Inc.
www.Lesair.com

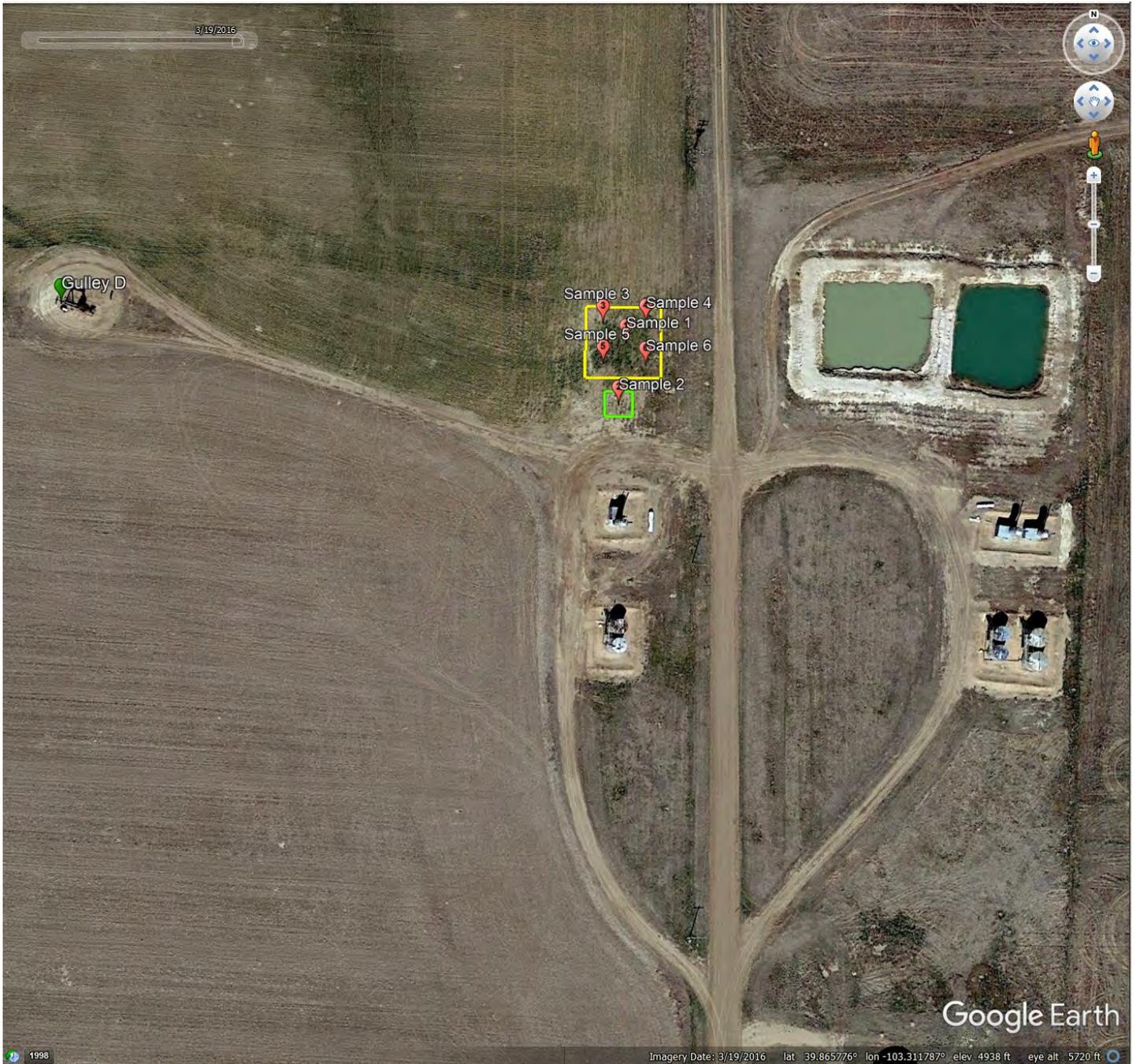
Pit Sample Points
Gulley 1-D
PADCO, LLC

Google Earth Image 2016



Historic Pit Location
Gulley 1-D
PADCO, LLC

Google Earth Image 2016



Company Name: **PADCO, LLC**

Facility Name: **Gulley 1-D**

Attachment C

Sample Photos

Prepared for:
PADCO, LLC

Prepared by:
Lesair Environmental, Inc.
www.Lesair.com

Gulley 1-D Skim and Produced Water Pit

PADCO, LLC



Historic Pit Location/Site (Looking South to North)

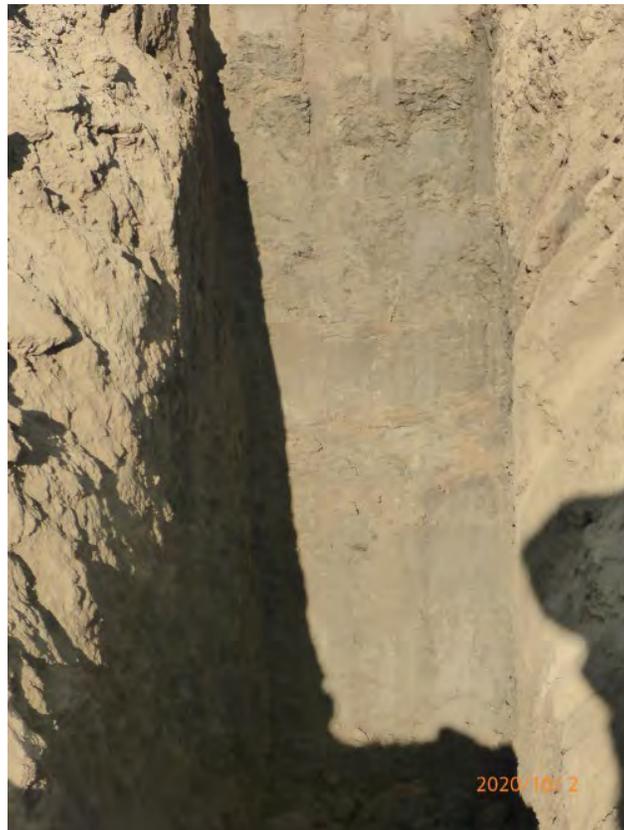


Historic Pit Location/Site (Looking Northeast to Southwest)

Gulley 1-D Skim and Produced Water Pit
PADCO, LLC



Sample 1 Spoil Pile



Sample Point 1 Excavation

Gulley 1-D Skim and Produced Water Pit
PADCO, LLC



Sample 2 Spoil Pile



Sample Point 2 Excavation

Gulley 1-D Skim and Produced Water Pit
PADCO, LLC



Sample 3 Spoil Pile



Sample Point 3 Excavation

Gulley 1-D Skim and Produced Water Pit
PADCO, LLC



Sample 4 Spoil Pile



Sample Point 4 Excavation

Gulley 1-D Skim and Produced Water Pit
PADCO, LLC



Sample 5 Spoil Pile



Sample Point 5 Excavation

Gulley 1-D Skim and Produced Water Pit
PADCO, LLC



Sample 6 Spoil Pile



Sample Point 6 Excavation

Company Name: **PADCO, LLC**

Facility Name: **Gulley 1-D**

Attachment D

Laboratory Analysis

Prepared for:
PADCO, LLC

Prepared by:
Lesair Environmental, Inc.
www.Lesair.com

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

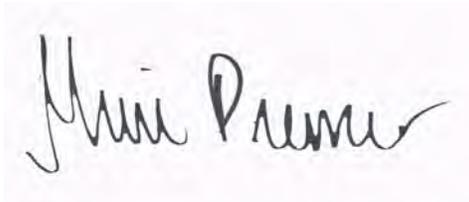
October 22, 2020

Ty Smith
Lesair Environmental
11786 Shaffer Place Suite 210
Littleton, CO 80127

RE: Gulley Pit Samples
Work Order #2010022

Enclosed are the results of analyses for samples received by Summit Scientific on 10/02/20 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1@9'0"	2010022-01	Soil	10/02/20 00:00	10/02/20 17:20
#1@6'0"	2010022-02	Soil	10/02/20 00:00	10/02/20 17:20
#2@10'0"	2010022-03	Soil	10/02/20 00:00	10/02/20 17:20
#2@9'0"	2010022-04	Soil	10/02/20 00:00	10/02/20 17:20
#2@6'0"	2010022-05	Soil	10/02/20 00:00	10/02/20 17:20
#3@8'8"	2010022-06	Soil	10/02/20 00:00	10/02/20 17:20
#4@8'1"	2010022-08	Soil	10/02/20 00:00	10/02/20 17:20
#5@8'0"	2010022-09	Soil	10/02/20 00:00	10/02/20 17:20
#6@8'10"	2010022-10	Soil	10/02/20 00:00	10/02/20 17:20

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.



Contact/Billing Information	
Name:	Lesair Environmental
Address:	11786 Shaffer Place, Suite 210
City/State/Zip:	Littleton, CO 80127
Phone Number:	303-904-2525
Fax Number:	303-904-7374
Project Manager:	Ty Smith
Email:	ty.smith@lesair.com

Notes:

- HOLD - DEPENDS ON OTHER RESULTS

- STANDARD TURN AROUND -

Project Name:	GULLEY PIT SAMPLES	Sampled By:	Ty Smith
Project Number:		Signature:	[Signature]
Sample Location:	GULLEY #1-D	Date:	10/02/2020

Sample Information					Matrix*	Preservation					Analysis								
Sample Name	Date Sampled	Time Sampled	Number of Samples	G=Grab, C= Composite		HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)							
#1 @ 9'-0"	10/02/2020		2	G	SOIL						X	TPH (ORO, GRO, DRO)	X	X	X				
#1 @ 6'-0"	10/02/2020		2	G	"		HOLD				X		X	X					HOLD
#2 @ 10'-0"	10/02/2020		2	G	"						X		X	X					
#2 @ 9'-0"	10/02/2020		2	G	"		HOLD				X		X	X					HOLD
#2 @ 6'-0"	10/02/2020		2	G	"		HOLD				X		X	X					HOLD
#3 @ 8'-8"	10/02/2020		2	G	"						X		X	X					
#3 @ 7'-8"	10/02/2020		2	G	"		HOLD				X		X	X					HOLD
#4 @ 8'-1"	10/02/2020		2	G	"						X		X	X					
#5 @ 8'-0"	10/02/2020		2	G	"						X		X	X					
#6 @ 8'-10"	10/02/2020		2	G	"						X		X	X					

Relinquished By:	[Signature]	Date:	10/02/2020	Time:	1720
Received By:	[Signature]	Date:	10.02.2020	Time:	1720

*Choose from: SL- Sludge, DW-Drinking Water, GW- Groundwater, S- Soil/Solids, WW- Wastewater, Specify Other Temp 6.2"

Sample Receipt Checklist

S2 Work Order 2010022

Client: Lesair Enviro Client Project ID: Gulley Pit Samples

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>6.2°</u>
-----------	-------------

Thermometer ID: 61857155-K

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

10.2.2020
Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#1@9'0"
2010022-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	37	0.50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		424 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2200	50	mg/kg	1	BDJ0056	10/07/20	10/07/20	EPA 8015M	
C28-C36 (ORO)	600	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.7 %	30-150		"	"	"	"	

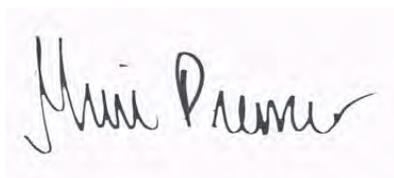
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.72		pH Units	1	BDJ0048	10/07/20	10/07/20	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#1@6'0"
2010022-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0220	10/19/20	10/22/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	200	50	mg/kg	1	BDJ0218	10/19/20	10/20/20	EPA 8015M	
C28-C36 (ORO)	74	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.2 %	30-150		"	"	"	"	S-02

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BDJ0257	10/21/20	10/21/20	EPA 9045D	I-02

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#2@10'0"
2010022-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.2	0.50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		304 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2900	50	mg/kg	1	BDJ0056	10/07/20	10/08/20	EPA 8015M	
C28-C36 (ORO)	890	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.3 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.94		pH Units	1	BDJ0048	10/07/20	10/07/20	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#2@9'0"
2010022-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0220	10/19/20	10/22/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	37	0.50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		409 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	8500	50	mg/kg	1	BDJ0218	10/19/20	10/20/20	EPA 8015M	
C28-C36 (ORO)	2200	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		138 %	30-150		"	"	"	"	S-02

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BDJ0257	10/21/20	10/21/20	EPA 9045D	I-02

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#2@6'0"
2010022-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0220	10/19/20	10/22/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.4	0.50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		212 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	21000	50	mg/kg	1	BDJ0218	10/19/20	10/20/20	EPA 8015M	
C28-C36 (ORO)	6100	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		225 %	30-150		"	"	"	"	S-02

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BDJ0257	10/21/20	10/21/20	EPA 9045D	I-02

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#3@8'8"
2010022-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BDJ0056	10/07/20	10/08/20	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.0 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BDJ0048	10/07/20	10/07/20	EPA 9045D	

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#4@8'1"
2010022-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	990	50	mg/kg	1	BDJ0056	10/07/20	10/08/20	EPA 8015M	
C28-C36 (ORO)	380	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.0 %	30-150		"	"	"	"	

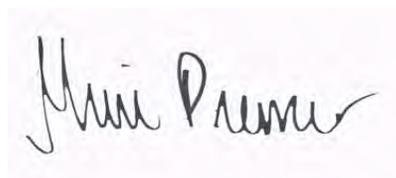
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.41		pH Units	1	BDJ0048	10/07/20	10/07/20	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#5@8'0"
2010022-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	840	50	mg/kg	1	BDJ0056	10/07/20	10/08/20	EPA 8015M	
C28-C36 (ORO)	310	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.8 %	30-150		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BDJ0048	10/07/20	10/07/20	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

#6@8'10"
2010022-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BDJ0056	10/07/20	10/08/20	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.4 %	30-150		"	"	"	"	

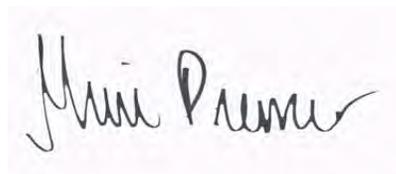
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.52		pH Units	1	BDJ0048	10/07/20	10/07/20	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BDJ0026 - EPA 5030 Soil MS

Blank (BDJ0026-BLK1)

Prepared & Analyzed: 10/06/20

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	0.0379		"	0.0400		94.6	23-173			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.4	21-167			

LCS (BDJ0026-BS1)

Prepared: 10/06/20 Analyzed: 10/07/20

Benzene	0.0676	0.0020	mg/kg	0.0750		90.2	70-130			
Toluene	0.0701	0.0050	"	0.0750		93.5	70-130			
Ethylbenzene	0.0866	0.0050	"	0.0750		115	70-130			
m,p-Xylene	0.164	0.010	"	0.150		109	70-130			
o-Xylene	0.0844	0.0050	"	0.0750		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0305		"	0.0400		76.4	23-173			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.7	21-167			

Matrix Spike (BDJ0026-MS1)

Source: 2010019-01

Prepared: 10/06/20 Analyzed: 10/07/20

Benzene	0.0617	0.0020	mg/kg	0.0750	ND	82.3	70-130			
Toluene	0.0624	0.0050	"	0.0750	ND	83.2	70-130			
Ethylbenzene	0.0803	0.0050	"	0.0750	ND	107	70-130			
m,p-Xylene	0.156	0.010	"	0.150	0.00330	102	70-130			
o-Xylene	0.0802	0.0050	"	0.0750	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0304		"	0.0400		76.0	23-173			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92.2	21-167			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BDJ0026 - EPA 5030 Soil MS

Matrix Spike Dup (BDJ0026-MSD1)

Source: 2010019-01

Prepared: 10/06/20 Analyzed: 10/07/20

Benzene	0.0651	0.0020	mg/kg	0.0750	ND	86.8	70-130	5.30	30	
Toluene	0.0650	0.0050	"	0.0750	ND	86.7	70-130	4.10	30	
Ethylbenzene	0.0856	0.0050	"	0.0750	ND	114	70-130	6.40	30	
m,p-Xylene	0.167	0.010	"	0.150	0.00330	109	70-130	6.98	30	
o-Xylene	0.0843	0.0050	"	0.0750	ND	112	70-130	5.07	30	
Surrogate: 1,2-Dichloroethane-d4	0.0288		"	0.0400		72.1	23-173			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0365		"	0.0400		91.2	21-167			

Batch BDJ0220 - EPA 5030 Soil MS

Blank (BDJ0220-BLK1)

Prepared & Analyzed: 10/19/20

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	0.0351		"	0.0400		87.8	23-173			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	21-167			

LCS (BDJ0220-BS1)

Prepared & Analyzed: 10/19/20

Benzene	0.126	0.0020	mg/kg	0.150		83.9	70-130			
Toluene	0.126	0.0050	"	0.150		84.3	70-130			
Ethylbenzene	0.127	0.0050	"	0.150		84.9	70-130			
m,p-Xylene	0.259	0.010	"	0.300		86.5	70-130			
o-Xylene	0.136	0.0050	"	0.150		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.5	23-173			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BDJ0220 - EPA 5030 Soil MS

Matrix Spike (BDJ0220-MS1)

Source: 2010209-01

Prepared & Analyzed: 10/19/20

Benzene	0.141	0.0020	mg/kg	0.150	ND	93.9	70-130			
Toluene	0.125	0.0050	"	0.150	ND	83.1	70-130			
Ethylbenzene	0.114	0.0050	"	0.150	ND	76.0	70-130			
m,p-Xylene	0.235	0.010	"	0.300	ND	78.5	70-130			
o-Xylene	0.121	0.0050	"	0.150	ND	80.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		103	23-173			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	21-167			

Matrix Spike Dup (BDJ0220-MSD1)

Source: 2010209-01

Prepared & Analyzed: 10/19/20

Benzene	0.145	0.0020	mg/kg	0.150	ND	96.6	70-130	2.85	30	
Toluene	0.139	0.0050	"	0.150	ND	92.4	70-130	10.6	30	
Ethylbenzene	0.108	0.0050	"	0.150	ND	72.3	70-130	4.99	30	
m,p-Xylene	0.219	0.010	"	0.300	ND	73.1	70-130	7.14	30	
o-Xylene	0.118	0.0050	"	0.150	ND	78.6	70-130	2.49	30	
Surrogate: 1,2-Dichloroethane-d4	0.0455		"	0.0400		114	23-173			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BDJ0056 - EPA 3550A

Blank (BDJ0056-BLK1)

Prepared & Analyzed: 10/07/20

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BDJ0056-BS1)

Prepared & Analyzed: 10/07/20

C10-C28 (DRO)	393	50	mg/kg	500	78.6	70-130				
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Matrix Spike (BDJ0056-MS1)

Source: 2010022-01

Prepared & Analyzed: 10/07/20

C10-C28 (DRO)	3470	50	mg/kg	500	2230	247	70-130			QM-07
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Matrix Spike Dup (BDJ0056-MSD1)

Source: 2010022-01

Prepared & Analyzed: 10/07/20

C10-C28 (DRO)	4930	50	mg/kg	500	2230	540	70-130	34.8	20	QM-07
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Batch BDJ0218 - EPA 3550A

Blank (BDJ0218-BLK1)

Prepared & Analyzed: 10/19/20

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BDJ0218-BS1)

Prepared & Analyzed: 10/19/20

C10-C28 (DRO)	553	50	mg/kg	500	111	70-130				
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Matrix Spike (BDJ0218-MS1)

Source: 2010224-02

Prepared & Analyzed: 10/19/20

C10-C28 (DRO)	621	50	mg/kg	500	45.9	115	70-130			
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Matrix Spike Dup (BDJ0218-MSD1)

Source: 2010224-02

Prepared & Analyzed: 10/19/20

C10-C28 (DRO)	645	50	mg/kg	500	45.9	120	70-130	3.86	20	
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Summit Scientific

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Lesair Environmental
 11786 Shaffer Place Suite 210
 Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
 Project Manager: Ty Smith

Reported:
 10/22/20 16:50

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

Summit Scientific

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

Batch BDJ0048 - General Preparation

LCS (BDJ0048-BS1)

Prepared & Analyzed: 10/07/20

pH 9.52 pH Units 9.18 104 95-105

Duplicate (BDJ0048-DUP1)

Source: 2009360-01

Prepared & Analyzed: 10/07/20

pH 6.58 pH Units 6.60 0.303 20

Batch BDJ0257 - General Preparation

LCS (BDJ0257-BS1)

Prepared & Analyzed: 10/21/20

pH 9.49 pH Units 9.21 103 95-105

Duplicate (BDJ0257-DUP1)

Source: 2010022-02

Prepared & Analyzed: 10/21/20

pH 8.52 pH Units 8.55 0.351 20

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: Gulley Pit Samples

Project Number: [none]
Project Manager: Ty Smith

Reported:
10/22/20 16:50

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- I-02 This sample was analyzed outside of the recommended holding time.
- 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