

K.P. Kauffman Company, Inc.

Robert Burge #1 Flowline Release

Remediation Project#: 15743
Weld County, Colorado

Site Investigation and Remediation Report

Submitted: May 14, 2021

1.0 INTRODUCTION

K.P. Kauffman Company, Inc. (KPK) has performed an investigation and remediation following the discovery of the Robert Burge #1 flowline release (Remediation Project# 15743) in Weld County, Colorado. The flowline release was discovered on 6/15/2020, northwest of the intersection of Weld County Road (WCR) 12 and WCR 23. The location of the flowline release is illustrated on Figure 1 which has been provided in Appendix A. KPK has performed excavation activities to further investigate and remediate the flowline release location, as well as completed necessary repairs to bring the flowline back into service. Based on completed site investigation and remediation activities performed, the soil impacts from flowline release location have been 1) delineated both vertically and horizontally and 2) removed and disposed of at a certified disposal location. A water sample from the pit was collected per request by COA, the results show no impact to water. The location was backfilled prior to COGCC approval at the request of the COGCC out of concerns for the adjacent Brantner Ditch.

2.0 FIELD ACTIVITIES

2.1 Flowline Release Investigation

On, or about Jan 20, 2021 excavation of impacted soil as a result of the flowline release was completed by KPK. The excavation of contaminated soil created an area of approximately 30 feet (ft.) long, 25 ft. wide, and 8 ft. deep. The excavation area is illustrated in Figure 2 which has been provided in Appendix A. Photographs of the excavation have been provided in Appendix B. Top soil was present along the sidewalls of the excavation area from the surface to 1 ft. below ground surface (BGS). The top soil was underlain by silty clay to the base of the excavation area. Groundwater was not encountered during the excavation process, but later water was observed in the bottom of the excavation by COGCC EPS. A grab water sample was taken before the excavation was backfilled. Surface water was also collected and analyzed on 8/27/2020, no impacts to surface was observed in the laboratory results.

Prior to the collection of discrete soil samples, the sidewalls and floor of the excavation area were field screened using a photoionization detector (PID) equipped with a 10.8 electro-volt lamp. PID field screening did not detect any presence of volatile organic compounds (VOCs) in the soil, indicating that the contaminated soil had been fully excavated and that the soil impacts

associated with the flowline release had been defined both vertically and horizontally. Removal of impacted soil was confirmed with soil sampling and analysis described below.

KPK removed 450 tons (375 cubic yards) of impacted soil from the flowline release location and hauled it to a certified disposal facility. Soil manifests for the contaminated soil have been included in Appendix C.

2.2 Soil Sampling

On January 27, 2021, KPK collected five (5) soil samples from the excavation area at a depth of 5 ft. BGS on the sidewalls and 13 ft on the excavation center. The soil sample locations were chosen based on the results of PID field screening. Based on PID field screening producing no detection of VOCs from the excavation area, soil samples were collected from center sections of the side walls and floor, as a best representation of the entire excavation area. The soil sample locations are illustrated in Figure 2 which is included in Appendix A.

The collected soil samples were field screened for VOCs with a PID. The PID did not detect a presence of VOCs in any of the soil samples. The collected soil samples were screened for odors, staining and/or discoloration. None of the samples exhibited any hydrocarbon odor, staining or discoloration.

Prior to excavation activities, KPK contracted APEX Consulting Services to preform a surface and groundwater investigation. Results of the investigation have already been provided to the COGCC as required in COGCC EPS Field Inspection Report. Direct push soil probing with PID field screening was performed as part of the site investigation to delineate the horizontal soil impacts. Two (2) soil samples and one (1) groundwater sample were collected as part of the site investigation. Copy of the site investigation report has been provided as Appendix D.

2.3 Water Sampling

On March 31, 2021, KPK collected one (1) water sample from the excavation area as requested in COGCC EPS Field Inspection Report. The water sample location are illustrated in Figure 2 which is included in Appendix A. Following the collection of the water sample, the excavation area was immediately backfilled.

Prior to excavation activities, KPK contracted APEX Consulting Services to perform a surface water and groundwater investigation. Results of the investigation have already been provided to the COGCC as required in COGCC EPS Field Inspection Report. Both surface water and groundwater samples were collected and analyzed as part of the site investigation. Copy of the site investigation report has been provided as Appendix E.

2.4 Analytical Results

The soil and water samples were handled with clean, new, nitrile gloves and placed in laboratory supplied sample containers and labeled. Collected samples were placed in a cooler with ice and delivered to a certified laboratory under chain-of-custody documentation. Per COGCC Rule, all collected soil samples were analyzed for the applicable Table 915-1 analytes, including inorganics and metals for the soil samples.

The laboratory results indicated both soil and water samples collected from the excavation area were either non detect or below the COGCC reporting limit based on thresholds established in Table 915-1, with the exception of arsenic. A background sample was collected (Sample ID: Robert Burge #1 (BG)) to show that arsenic is naturally occurring in high concentrations in the area of the flowline release location. The results of the background sample show native soils have arsenic concentrations comparable to the confirmation soil samples collected from the excavation area (i.e., samples collected from the excavation area had measured arsenic levels within 1.25x the collected background sample). The laboratory results have been summarized in Appendix F.

The laboratory analytical reports and chain-of-custody (COC) forms are included in Appendix G. Please note that the soil samples and water sample are on two different COC's as they were collected at different times.

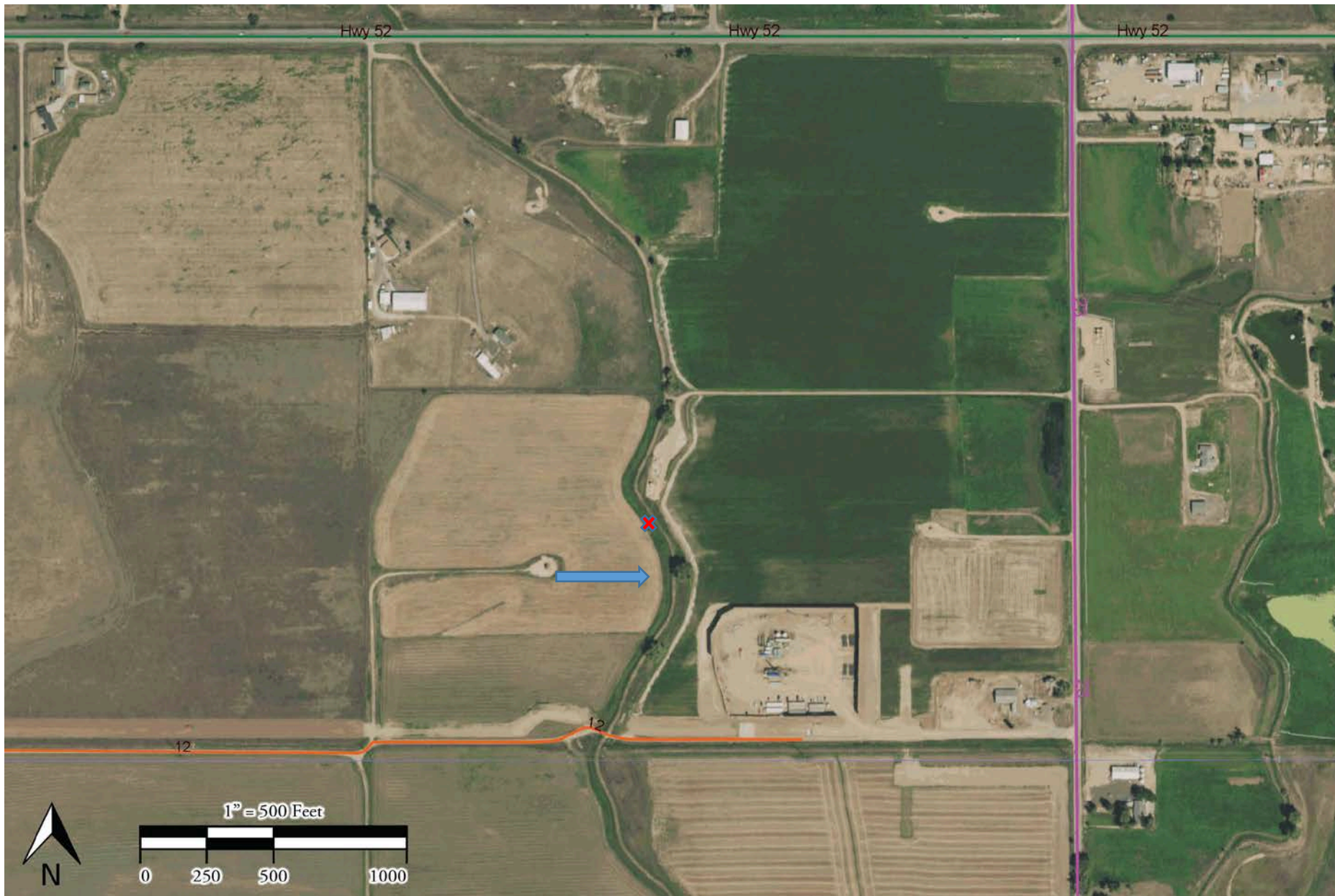
3.0 CONCLUSIONS AND RECOMMENDATIONS

On or about January 21, 2021, 2021 the excavation of contaminated soil at the Robert Burge #1 flowline release was completed to a depth of 13 ft. No groundwater was encountered during the excavation process. However, water was observed at a later date and was sampled by request of the COGCC EPS. Five (5) discrete soil samples and one (1) groundwater sample were collected and analyzed for analytes in Table 915-1 following the completion of excavation activities. The laboratory results indicated that


only arsenic exceeded thresholds established in Table 915-1; however the analytical results of the collected background sample show that arsenic is naturally occurring above the threshold in Table 915-1.


Based on the analytical results of the soil samples and groundwater, additional work at the flowline release location is not warranted at this time.

Appendix A: Location Maps



Legend

 Direction of Surface Flow

 Release Location
Lat:40.07498 Long:-104.85437

Date:	June 2020
Designed By:	K.P. Kauffman Co.
Drawn By:	MWK



K.P. Kauffman Company, Inc.
1675 Broadway, Suite 2800
Denver CO, 80202

K.P. Kauffman Company, Inc.
Robert G. Berge #2Release
SWSE, Section 2, Township 1 North, Range 67 West
Weld County, Colorado

Figure #1
Site Map



Legend

- Limits of Excavation
- x Soil Sample Location
- x GW Sample Location
- - - Robert Burge Flowline

Soil Sample Details:
Soil Samples Collected 01/27/2021

Sample ID	Latitude	Longitude	Depth (ft.)
W(1)	40.07493	-104.8543	5
N(2)	40.07497	-104.8543	5
E(3)	40.07495	-104.8543	5
M(4)	40.07493	-104.8543	8
S(5)	40.07449	-104.8543	5
(BG)	40.0749	-104.8541	3
GW	40.07493	-104.8543	6

Date:	May 2021
Designed By:	K.P. Kauffman Co.
Drawn By:	JRR



K.P. Kauffman Company, Inc.
1675 Broadway, Suite 2800
Denver CO, 80202

K.P. Kauffman Company, Inc.
Robert Burge #2 Flowline Release
SWSE, Section 2, Township 1 North, Range 67 West
Weld County, Colorado

Figure #2
Soil Sample Location Map

Appendix B: Excavation Pictures

Robert Burge
Remediation Project No. 15743
Site Excavation Photos



Appendix C: Soil Manifests

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FR16050
Grid: FRL-WK1
NOTES:: PETROLEUM CONT SOIL DRILL CUTT
YARDS:: K P KAUFFMAN
PO#:: BY TON
Manifest#: 4530

DATE IN: 04/07/2021 TIME IN: 13:58:50
DATE OUT: 04/07/2021 TIME OUT: 13:58:50

INBOUND TICKET Number: 03-02062267

Qty	Description	Amount
	SCALE 1 GROSS WT.	45100 LB
	MANUAL TARE WT.	24200 LB
	NET WEIGHT	20900 LB
10.45	ContSoil-E&P/Ton	

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

HAZARDOUS WASTE MANIFEST

Manifest Number: **4530**
Approval Number: FRL16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Company Name: kauffman Site Name: Robert Burr
Address: County Road 22
City, State: Er, CO
Contact Person: kauffman
Phone #: _____ Fax: _____

Petroleum Contaminated Soil Consultant: _____
Address: _____

E&P Exempt: Petroleum City, State: _____
Contaminated Soil Zip: _____

_____ Tons Contact Person: _____
Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special as delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____ Shipment Date _____

Transporter Information (transporter to complete)

Company Name: Man Well Service
Address: County Road 22
City, State: Erpton, CO

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

_____ 33-5670 I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) _____

Signature of Driver _____

Date _____

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WGR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes: PCSEP_TON
Charge To: 2140

Volume Received Ticket # 20108889
Yards 0 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____

Signature of Landfill's Authorized Agent _____

Date _____

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FR16050
Grid: FRL-WK1
NOTES.: PETROLEUM CONT SOIL DRILL CUT
YARDS.: K P KAUFFMAN
PO#: BY TON
Manifest#: 4529

DATE IN: 04/07/2021 TIME IN: 14:34:24
DATE OUT: 04/07/2021 TIME OUT: 14:34:24

INBOUND TICKET Number: 03-02062295

SCALE 1 GROSS WT.	46060 LB
MANUAL TARE WT.	24200 LB
NET WEIGHT	21860 LB

Qty	Description	Amount
10.93	ContSoil-F&P/Ton	

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Name of Driver (print / type)

Section 3

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes

PCSEP_TON

Charge To

2140

Destination Information

(disposal facility to complete)

Signature of Driver

Date

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

AZARDOUS WASTE MANIFEST

Manifest Number:

4529

Approval Number:

FR16050

Expiration Date:

2/27/2022

Generator Information (generator to complete)

Company Name: Robert Joyce
Address: 2140
City, State: 2140
Zip: 80516

Contact Person: _____
Phone #: _____ Fax: _____

Petroleum Contaminated Consultant: _____
Address: _____

Oil & Gas Exempt: Petroleum City, State: _____
Contaminated Soil Zip: _____

Net Weight: Tons Contact Person: _____
Phone #: _____ Fax: _____

same material represented on the Special Waste Application identified by the above Special delivered to the transporter on the shipment date referenced below.

Name of Generator's Authorized Agent _____ Signature of Generator's Authorized Agent _____
Shipment Date _____

Transporter Information (transporter to complete)

Well Service
Company Name: Well Service
Address: nty Road 22
City, State: n, CO
Zip: 5670

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Signature of Driver

Date

Destination Information

(disposal facility to complete)

Volume Received	Ticket #	Yards	Tons	Other

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighed: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FR16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: BY TON
Manifest#: 4531

DATE IN: 04/07/2021 TIME IN: 14:30:41
DATE OUT: 04/07/2021 TIME OUT: 14:30:41

INBOUND TICKET Number: 03-02062290

SCALE 1 GROSS WT. 44140 LB
MANUAL TARE WT. 23000 LB
NET WEIGHT 21140 LB

Qty Description Amount
10.57 ContSoil-E&P/Ton

HAZARDOUS WASTE MANIFEST

Manifest Number: **4531**
Approval Number: FRL6050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Company Name: Kauffman Site Name: Kauffman
Address: County Road 22
City, State: Golden, CO
Contact Person: Kauffman
Phone #: _____ Fax: _____

Petroleum Contaminated Soil Consultant: _____
Address: _____

E&P Exempt: Petroleum Contaminated Soil City, State: _____
Zip: _____

Yards Tons Contact Person: _____
Phone #: _____ Fax: _____

is the same material represented on the Special Waste Application identified by the above Special
was delivered to the transporter on the shipment date referenced below.

Print / type) Signature of Generator's Authorized Agent Shipment Date

Transporter Information (transporter to complete)

Company Name: Offman Well Service
Address: 9 County Road 22
City, State: Lupton, CO
Zip: 821
Phone #: 3-833-5670

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) Signature of Driver Date

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill Waste Codes PCSEP_TON Volume Received 21140 Ticket # 20160290
1830 WGR 5 POB 320 Erie, CO 80516 Phone: 303-673-9431
Fax: 303-673-9432 Charge To 2140 Yards 10.57 Tons 10.57 Other 0
Grid 4721 Elevation _____

Landfill Authorized Agent Name (print / type) Signature of Landfill's Authorized Agent Date
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

Front Range Landfill11
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMY B
BILL TO: 2140

K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_505
Reference: FR16050
Grid: FRL-WK1
NOTES:: PETROLEUM CONT SOIL DRILL CUTT
YARDS:: K P KAUFFMAN
PG#: BY TON
Manifest#: 4515

DATE IN: 04/08/2021 TIME IN: 10:51:12
DATE OUT: 04/08/2021 TIME OUT: 10:51:12

INBOUND TICKET Number: 03-02062691

SCALE 1 GROSS WT. 51320 LB
STORED TARE WT. 20980 LB
NET WEIGHT 30340 LB

Qty Description Amount
15.17 ContSoil-E&P/Ton

HAZARDOUS WASTE MANIFEST

Manifest Number: **4515**
Approval Number: FR16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Company: Kauffman
Address: County Road 22
City, State: Erie, CO
Contact Person: Robert Rurge
Phone #: _____ Fax: _____

Petroleum Contaminated Soil Consultant: _____
Address: _____

E&P Exempt: Petroleum Contaminated Soil
City, State: _____ Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

Yards Tons Contact Person: _____
Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special
was delivered to the transporter on the shipment date referenced below.

City: Erie
Signature of Generator's Authorized Agent: *Robert Rurge* Shipment Date: 4-8-21

Transporter Information (transporter to complete)

Company: Man Well Service
Address: County Road 22
City, State: Epton, CO
Important Notice: Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print/type): *RITCHEE Pendley* Signature of Driver: *Ritchie Pendley* Date: 4-8-21
Phone #: 303-833-5670

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes: PCSEP_TON
Charge To: 2140

Volume Received: _____ Tons: 15.17 Other: _____
Grid: _____ Elevation: _____

Landfill Authorized Agent Name (print / type): _____ Signature of Landfill's Authorized Agent: _____ Date: 4-8-21

White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
 FRONT RANGE LANDFILL
 PO Box 320
 Erie, CO 80516

Weighed: AMY B
 BILL TO: 2140
 K P KAUFFMAN COMPANY
 1675 BROADWAY STE 2800
 DENVER CO 80202-4519

Vehicle ID: KP_505
 Reference: FR16050
 Grid: FRL-WK1
 NOTES: PETROLEUM CONT SOIL DRILL CUTT
 YARDS: K P KAUFFMAN
 PO#: BY TON
 Manifest#: 4512

DATE IN: 04/07/2021 TIME IN: 11:04:44
 DATE OUT: 04/07/2021 TIME OUT: 11:04:44

INBOUND TICKET Number: 03-02062064

Qty	Description	Amount
	SCALE 1 GROSS WT.	51480 LB
	STORED TARE WT.	20980 LB
	NET WEIGHT	30500 LB
15.25	ContSoil-E&P/Ton	

I/WE THE UNDERSIGNED, CERTIFY THAT THE
 WASTE DELIVERED FOR DISPOSAL IS
 NON-HAZARDOUS SOLID WASTE MATERIALS.

ERP: 00021

Phone #: 303-833-5670

Name of Driver (print / type)

Signature of Driver

Date

Section 3

Destination Information

(disposal facility to complete)

Front Range Landfill
 1830 WCR 5 POB 320
 Erie, CO 80516
 Phone: 303-673-9431
 Fax: 303-673-9432

Waste Codes
 Charge To

PCSEP_TON
 2140

Volume Received Ticket #
 Yards Tons Other
 Grid Elevation

**HAZARDOUS WASTE
 MANIFEST**

Manifest Number: **4512**
 Approval Number: FR16050
 Expiration Date: 2/27/2022

Generator Information (generator to complete)

Site Name: Facility 8
 Address: Robert Surge #1
 City, State: _____ Zip: _____
 Contact Person: _____
 Phone #: _____ Fax: _____

Petroleum Contaminated Consultant:
 Address: _____

City, State: _____ Zip: _____

Tons Contact Person: _____
 Phone #: _____ Fax: _____

Time material represented on the Special Waste Application identified by the above Special
 ivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent

Shipment Date

Transporter Information (transporter to complete)

Well Service

Important Notice
 Disposal facility below must be
 notified in ADVANCE before delivery
 of waste with SPECIAL HANDLING
 instructions.

I hereby warrant that the above material was picked up at the generator site
 listed above and delivered without incident to the destination listed below.

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

HAZARDOUS WASTE MANIFEST

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_505
Reference: FR16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: BY TON
Manifest#: 4513

DATE IN: 04/07/2021 TIME IN: 12:35:45
DATE OUT: 04/07/2021 TIME OUT: 12:35:45

INBOUND TICKET Number: 03-02062175

SCALE 1 GROSS WT.	47440 LB
STORED TARE WT.	20980 LB
NET WEIGHT	26460 LB

Qty	Description	Amount
13.23	ContSoil-E&P/Ton	

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Manifest Number: **4513**
Approval Number: FR16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Company: kauffman Site Name: Facility 8
Address: Inty Road 22
City, State: Robert Bruce
Zip: #11
Contact Person: _____
Phone #: _____ Fax: _____

Petroleum Contaminated Soil Consultant: _____
Address: _____
E&P Exempt: Petroleum City, State: _____
Contaminated Soil Zip: _____
Tons Contact Person: _____
Phone #: _____ Fax: _____

the same material represented on the Special Waste Application identified by the above Special as delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent: Joyce Shipment Date: 4-7-21

Transporter Information (transporter to complete)

Company: man Well Service
Address: County Road 22
City, State: pton, CO
Phone: 33-5670
Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I herby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type): RITCHIE Bendley Signature of Driver: Ritchie Bendley Date: 4-7-21

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432
Waste Codes: PCSEP_TON
Charge To: 2140
Volume Received: _____ Ticket # 2060175
Yards: _____ Tons: 13.23 Other: _____
Grid: _____ Elevation: _____

Landfill Authorized Agent Name (print / type): _____ Signature of Landfill's Authorized Agent: _____ Date: _____
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

HAZARDOUS WASTE MANIFEST

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighed: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_505
Reference: FR16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: BY TON
Manifest#: 4514

DATE IN: 04/07/2021 TIME IN: 14:20:10
DATE OUT: 04/07/2021 TIME OUT: 14:20:10

INBOUND TICKET Number: 03-02062284

SCALE 1 GROSS WT. 48900 LB
STORED TARE WT. 20980 LB
NET WEIGHT 27920 LB

Qty Description Amount
13.96 ContSoil-ERP/Ton

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Manifest Number: **4514**
Approval Number: FR16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Company Name: Facility 8
City Road 22
City, State: ROBERT BRUCE
Zip: 81
Contact Person: _____
Phone #: _____ Fax: _____

Petroleum Contaminated Consultant: _____
Oil Address: _____

&P Exempt: Petroleum City, State: _____
Contaminated Soil Zip: _____

Tons Contact Person: _____
Phone #: _____ Fax: _____

Same material represented on the Special Waste Application identified by the above Special
delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent 4-7-21 Shipment Date

Transporter Information (transporter to complete)

Well Service
City Road 22
CO

Important Notice
Disposal facility below must be
notified in ADVANCE before delivery
of waste with SPECIAL HANDLING
instructions.

Phone #: 303-833-5670

I hereby warrant that the above material was picked up at the generator site
listed above and delivered without incident to the destination listed below.

Name of Driver (print/type) RYAN RUDLEY

Signature of Driver [Signature]

Date 4-7-21

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes PCSEP_TON
Charge To 2140

Volume Received Ticket # 20160509
Yards 10 Tons 3910 Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_505
Reference: UNSCRND21
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
Manifest#: 897

DATE IN: 04/07/2021 TIME IN: 09:49:52
DATE OUT: 04/07/2021 TIME OUT: 09:49:52
OUTBOUND TICKET Number: 03-02061969

SCALE 4 GROSS WT. 49680 LB
STORED TARE WT. 20980 LB
NET WEIGHT 28700 LB

Qty Description Amount
10.00 Dir-toutloadbyLandfill

X _____

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Manifest Number: 897

DIRT OUT

Generator

ffman
nty Road 22
n, CO
ara-Mesa
Site Name: Facility 8
Address: Robert Yunge
City, State:
Zip:
Contact Person:
Phone #:
Fax:

Dir-Out from Front
Range Landfill
Consultant:
Address:
City, State:
Zip:
Contact Person:
Phone #:
Fax:

Contact Person: _____
Phone #: _____ Fax: _____

Same material represented on the Special Waste Application identified by the above Special
delivered to the transporter on the shipment date referenced below.

(type) Robert Yunge 4-7-21
Signature of Generator's Authorized Agent Shipment Date

Transporter Information

uffman
ounty Road 22
on, CO

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site
listed above and delivered without incident.

Ritchie Pendley Ritchie Pendley 4-7-21
Name of Driver (print / type) Signature of Driver Date

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
DIRT_LD_Y
2140

Charge To

Volume Received Ticket # 2019967
Yards 10 Tons Other
Grid Elevation

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
 FRONT RANGE LANDFILL
 PO Box 320
 Erie, CO 80516

DIRT OUT

Weighted: JOYCE
 BILL TO: 2140
 K P KAUFFMAN COMPANY
 1675 BROADWAY STE 2800
 DENVER CO 80202-4519

Vehicle ID: KP_505
 Reference: UNSCRND21
 Grid: FRL-WK1
 NOTES:: UNSCREENED DIRT
 YARDS:: K P KAUFFMAN
 Manifest#: 896

DATE IN: 04/07/2021 TIME IN: 08:22:35
 DATE OUT: 04/07/2021 TIME OUT: 08:22:35
 OUTBOUND TICKET Number: 03-02061889

SCALE 4 GROSS WT.	51380 LB
STORED TARE WT.	20980 LB
NET WEIGHT	30400 LB

Qty Description Amount
 10.00 Dirt\outloadBy[Landfill]

Generator

Site Name: Facility 8
 Address: ROBERTS BLVD #1
 City, State: _____
 Zip: _____
 Contact Person: _____
 Phone #: _____ Fax: _____

Dir-Out from Front Range Landfill Consultant: _____
 Address: _____
 City, State: _____
 Zip: _____

Contact Person: _____
 Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special is delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent: [Signature] Shipment Date: 4-7-21

Transporter Information

Transporter Name: Frontman
 Address: County Road 22
 Location: Frontman, CO

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type): RITCHIE Pendley Signature of Driver: [Signature] Date: 4-7-21

Front Range Landfill Information

Front Range Landfill 1830 WCR 5 POB 320 Erie, CO 80516
 Phone: 303-673-9431 Fax: 303-673-9432

Waste Codes: DIRT_ID_Y Volume Received: 206,188 Tons: _____ Other: _____
 Charge To: 2140 Grid: _____ Elevation: _____

Landfill Authorized Agent Name (print / type): _____ Signature of Landfill's Authorized Agent: _____ Date: 4-7-21
 White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.
 Operating Hours: M-F 6am-5pm, Sat 6am-2pm
 Phone: 303-673-9431

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

DIRT OUT

Generator

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Site Name: Facility 8
Address: Robert Ruge
#1

City, State: _____
Zip: _____

Contact Person: _____

Phone #: _____ Fax: _____

Dir-Out from Front Range Landfill Consultant: _____
Address: _____

City, State: _____
Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special is delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent: [Signature] Shipment Date: 4-7-21

Transporter Information

Transporter Name: Frontman
Address: County Road 22
City, State: _____
Zip: _____

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type): RITCHIE Pendley Signature of Driver: [Signature] Date: 4-7-21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes: DIRT_ID_Y
Charge To: 2140

Volume Received: 2061887
Yards: 10 Tons: _____ Other: _____
Grid: _____ Elevation: _____

Landfill Authorized Agent Name (print / type): _____ Signature of Landfill's Authorized Agent: _____ Date: 4-7-21
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

DIRT OUT

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP 505
Reference: UNSCRND21
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
Manifest#: 995

DATE IN: 04/07/2021 TIME IN: 11:29:08
DATE OUT: 04/07/2021 TIME OUT: 11:29:08

OUTBOUND TICKET Number: 03-02062094

SCALE 4 GROSS WT. 49860 LB
STORED TARE WT. 20980 LB
NET WEIGHT 28880 LB

Qty Description Amount
10.00 DirtOutLoadByLandfill

Generator

Site Name: Facility 8
Address: ROBERT BURGE #1
City, State: _____
Zip: _____

Contact Person: _____

Phone #: _____ Fax: _____

Consultant: _____

Address: _____

City, State: _____
Zip: _____

Contact Person: _____

Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special ; delivered to the transporter on the shipment date referenced below.

✓ Ritchie Pendley 4-7-21
Signature of Generator's Authorized Agent Shipment Date

Transporter Information

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Phone #: 303-833-5670

I herby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Ritchie Pendley Ritchie Pendley 4-7-21
Name of Driver (print / type) Signature of Driver Date

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
DIRT_LD_Y
2140

Volume Received Ticket # 8068074
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Manifest Number: 996

DIRT OUT

Weighted: AMY B

BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Generator

Offman _____ Site Name: Facility 8
County Road 22 _____ Address: Robert Burge
_____, CO _____ City, State: _____ Zip: _____
Para-Mesa _____ Contact Person: _____
Phone #: _____ Fax: _____

Vehicle ID: KP_505
Reference: SCREENED
Grid: FRL-WK1
NOTES: SCREENED DIRT
YARDS: KP KAUFFMAN
Manifest#: 996

DATE IN: 04/07/2021 TIME IN: 12:57:53
DATE OUT: 04/07/2021 TIME OUT: 12:57:53

OUTBOUND TICKET Number: 03-02062190

SCALE 4 GROSS WT. 44360 LB
STORED TARE WT. 20980 LB
NET WEIGHT 23380 LB

Qty Description Amount
10.00 Dirt+outloadByLandfil



Contact Person: _____
Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special is delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent 4-7-21
Signature of Driver 4-7-21 Shipment Date

Transporter Information

Transporter Name: Waste
County Road 22
City, State: _____

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type) RITCHIE Bendley

Signature of Driver Ritchie Bendley

Date 4-7-21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
Charge To

DIRT_LD_Y
2140

Volume Received Ticket # 2002190
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____

Signature of Landfill's Authorized Agent _____

Date 4-7-21

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

HAZARDOUS WASTE MANIFEST

Generator Information (generator to complete)

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Site Name: Robert Roy #1
Address: _____
City, State: _____
Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

Vehicle ID: KP 631
Reference: FR16050
Gr-id: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: BY TON
Manifest#: 4316

DATE IN: 04/07/2021 TIME IN: 13:29:08
DATE OUT: 04/07/2021 TIME OUT: 13:29:08

INBOUND TICKET Number: 03-02062230

SCALE 1 GROSS WT. 49280 LB
STORED TARE WT. 24160 LB
NET WEIGHT 25120 LB

Qty Description Amount
12.56 Contsoil-E&P/Ton

The same material represented on the Special Waste Application identified by the above Special is delivered to the transporter on the shipment date referenced below.

_____/_____/_____
(type) Signature of Generator's Authorized Agent Shipment Date

Transporter Information (transporter to complete)

an Well Service

County Road 22

ton, CO

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOL ID WASTE MATERIALS.

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) Signature of Driver Date

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
PCSEP_T
Charge To 2140

Volume Received Ticket # 2062230
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) Signature of Landfill's Authorized Agent Date

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
 FRONT RANGE LANDFILL
 PO Box 320
 Erie, CO 80516

DIRT OUT

Weighted: JOYCE
 BILL TO: 2140
 K P KAUFFMAN COMPANY
 1675 BROADWAY STE 2800
 DENVER CO 80202-4519

Vehicle ID: KP_631
 Reference: UNSCRND21
 Gr-Id: FRL-WK1
 NOTES: UNSCREENED DIRT
 YARDS: K P KAUFFMAN
 Manifest#: 953

DATE IN: 04/07/2021 TIME IN: 12:22:24
 DATE OUT: 04/07/2021 TIME OUT: 12:22:24
 OUTBOUND TICKET Number: 03-02062159

SCALE 4 GROSS WT. 47760 LB
 STORED TARE WT. 24160 LB
 NET WEIGHT 23600 LB

Qty Description Amount
 10.00 Dir-toutLoadByLandfill

Generator

Name Robert Burger #1
 Address: Robert Burger #1

City, State: _____
 Zip: _____

Contact Person: _____

Phone #: _____ Fax: _____

Out from Front Front Range Landfill Consultant: _____
 Address: _____

City, State: _____
 Zip: _____

Contact Person: _____
 Phone #: _____ Fax: _____

same material represented on the Special Waste Application identified by the above Special delivered to the transporter on the shipment date referenced below.

(Type) _____ Signature of Generator's Authorized Agent _____ Shipment Date 4/7/21

Transporter Information

Transporter Name Front Range Landfill
 Address County Road 22
 City, State Er, CO

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
 Phone: 303-673-9431

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type) David Stahler

Signature of Driver _____

Date 4/7/21

Front Range Landfill Information

Front Range Landfill
 1830 WCR 5 POB 320
 Erie, CO 80516
 Phone: 303-673-9431
 Fax: 303-673-9432

Waste Codes DIRT_LD_Y
 Charge To 2140

Volume Received 10 Tons 20062159 Ticket #
 Grid _____ Other _____
 Elevation _____

Landfill Authorized Agent Name (print / type) _____

Signature of Landfill's Authorized Agent _____

Date 4-7-21

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

HAZARDOUS WASTE MANIFEST

Manifest Number: **4315**
Approval Number: **FRL6050**
Expiration Date: **2/27/2020**

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_631
Reference: FR16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: BY TON
Manifest#: 4315

DATE IN: 04/07/2021 TIME IN: 11:56:36
DATE OUT: 04/07/2021 TIME OUT: 11:56:36

INBOUND TICKET Number: 03-02062131

Qty	Description	Amount
48040	SCALE 1 GROSS WT.	LB
24160	STORED TARE WT.	LB
23880	NET WEIGHT	LB

Same material represented on the Special Waste Application identified by the above Special delivered to the transporter on the shipment date referenced below.

e) Signature of Generator's Authorized Agent [Signature] Shipment Date 4/7/21

Transporter Information (transporter to complete)

Well Service

City Road 22

CO

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431
Phone #: 303-833-5670

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) Dev Stobly

Signature of Driver [Signature]

Date 4/7/21

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes

PCSEP_T

Volume Received Ticket # 2062131

Charge To

2140

Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP 631
Reference: UNSCRND21
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
Manifest#: 952

DATE IN: 04/07/2021 TIME IN: 10:53:23
DATE OUT: 04/07/2021 TIME OUT: 10:53:23

OUTBOUND TICKET Number: 03-02062051

Qty	Description	Amount
48140	SCALE 4 GROSS WT.	LB
24160	STORED TARE WT.	LB
23980	NET WEIGHT	LB
10.00	DirOutLoadByLandfill	

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431
Lpy: 00021

DIRT OUT

Generator

Site Name: Robert Burg #1
 Address: Road 22
 City, State: _____
 Zip: _____
 Contact Person: _____
 Phone #: _____ Fax: _____

Consultant: _____
 Address: _____
 City, State: _____
 Zip: _____

Contact Person: _____
 Phone #: _____ Fax: _____

I am hereby represented on the Special Waste Application identified by the above Special transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____ Shipment Date 4/7/21

Generator Information

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type) Deak Stokley Signature of Driver [Signature] Date 4/7/21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes DIRT_LD_Y Volume Received 2140 Tons 2140 Ticket # 20609051
 Charge To 2140 Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____
 White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: ANY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_631
Reference: FR16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUT
YARDS: K P KAUFFMAN
PO#: BY TON
Manifest#: 4314

DATE IN: 04/07/2021 TIME IN: 10:28:53
DATE OUT: 04/07/2021 TIME OUT: 10:28:53

INBOUND TICKET Number: 03-02062023

Qty	Description	Amount
50980	SCALE 1 GROSS WT.	LB
24160	STORED TAKE WT.	LB
26820	NET WEIGHT	LB
13.41	ContSoil-E&P/Ton	

-HAZARDOUS WASTE MANIFEST

Manifest Number: **4314**
Approval Number: FR16050
Expiration Date: 2/27/2020

Generator Information (generator to complete)

Kauffman
County Road 22
ton, CO
City, State: _____
Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

Petroleum Contaminated Soil
Consultant: _____
Address: _____

E&P Exempt: Petroleum Contaminated Soil
City, State: _____
Zip: _____

Yards Tons Contact Person: _____
Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special was delivered to the transporter on the shipment date referenced below.

Name (print / type) _____ Signature of Generator's Authorized Agent _____ Shipment Date _____

Transporter Information (transporter to complete)

Human Well Service
County Road 22
Tipton, CO
Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

Phone #: 303-833-5670 I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) _____ Signature of Driver _____ Date _____

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
PCSEP_T
Charge To 2140

Volume Received Ticket # 20063033
Yards _____ Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____

White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

DIRT OUT

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_505
Reference: UNSCRND21
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
Manifest#: 891

DATE IN: 04/06/2021 TIME IN: 08:11:52
DATE OUT: 04/06/2021 TIME OUT: 08:11:52
OUTBOUND TICKET Number: 03-02061297

Qty	Description	Amount
	SCALE 4 GROSS WT.	57000 LB
	STORED TARE WT.	20980 LB
	NET WEIGHT	36020 LB
10.00	DirtyOutLadByLandfill	

Generator

ffman
nty Road 22
n, CO
ara-Mesa

Site Name: Facility 8
Address: Robertt 13yrgc

City, State: _____
Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

Dirt-Out from Front Range Landfill
Consultant: _____
Address: _____

City, State: _____
Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special was delivered to the transporter on the shipment date referenced below.

1 kg PPB Landlay 4-6-21
Signature of Generator's Authorized Agent Shipment Date

Transporter Information

Kauffman
County Road 22
Lupton, CO
1

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Rikell Pendley Rikell Pendley 4-6-21
Name of Driver (print / type) Signature of Driver Date

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
DIRT_ID_Y
2140

Charge To
2140

Volume Received Ticket # 2061297
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
 FRONT RANGE LANDFILL
 PO Box 320
 Erie, CO 80516

DIRT OUT

Generator

Weighted: JOYCE
 BILL TO: 2140
 K P KAUFFMAN COMPANY
 1675 BROADWAY STE 2800
 DENVER CO 80202-4519

Site Name: Facility 8
 Address: Robert Ruse
#1
 City, State: _____
 Zip: _____
 Contact Person: _____
 Phone #: _____ Fax: _____

Vehicle ID: KP 505
 Reference: UNSCRMD21
 Grid: FRL-WK1
 NOTES: UNSCREENED DIRT
 YARDS: K P KAUFFMAN
 Manifest#: 892

DATE IN: 04/06/2021 TIME IN: 10:06:18
 DATE OUT: 04/06/2021 TIME OUT: 10:06:18

OUTBOUND TICKET Number: 03-02061407

SCALE 4 GROSS WT. 51000 LB
 STORED TARE WT. 20980 LB
 NET WEIGHT 30020 LB

Qty Description Amount
 10.00 DirtOutloadByLandfill

The same material represented on the Special Waste Application identified by the above Special is delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent: [Signature] Shipment Date: 4-6-21

Transporter Information

Company Name: affman
 Address: County Road 22
 City, State: nton, CO

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type): RITCHIE PENDLEY Signature of Driver: [Signature] Date: 4-6-21

Front Range Landfill Information

Front Range Landfill
 1830 WCR 5 POB 320
 Erie, CO 80516
 Phone: 303-673-9431
 Fax: 303-673-9432

Waste Codes: DIRT_LD_Y
 Charge To: 2140

Volume Received Ticket # 2014117
 Yards 10 Tons _____ Other _____
 Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

DIRT OUT

Generator

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Site Name: Facility 8
Address: Robert Kurgel
City, State: _____
Zip: _____

Vehicle ID: KP_505
Reference: UNSCRND21
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
Manifest#: 893

Contact Person: _____
Phone #: _____
Fax: _____

DATE IN: 04/06/2021 TIME IN: 11:49:58
DATE OUT: 04/06/2021 TIME OUT: 11:49:58

Out from Front _____ Consultant: _____
Landfill _____ Address: _____
City, State: _____
Zip: _____

SCALE 4 GROSS WT. 49940 LB
STORED TARE WT. 20980 LB
NET WEIGHT 28960 LB

Contact Person: _____
Phone #: _____
Fax: _____

Qty Description Amount
10.00 DirtOuttoLandfill

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Signature of Generator's Authorized Agent

Shipment Date

Inspector Information

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type)

Signature of Driver

Date

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
DIRT_LD_Y
Charge To
2140

Volume Received Ticket # 20061522
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Manifest Number: 894

DIRT OUT

Generator

Weighted: Tammy N.
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Site Name: Facility Surge
Address: Robert #1

City, State: _____
Zip: _____

Contact Person: _____

Phone #: _____ Fax: _____

Out from Front _____ Consultant: _____
Landfill _____ Address: _____

City, State: _____
Zip: _____

Contact Person: _____

Phone #: _____ Fax: _____

Material represented on the Special Waste Application identified by the above Special
delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent [Signature] Shipment Date 4-6-21

Transporter Information

Company Name: Effman
Address: County Road 22
City, State: CO

I hereby warrant that the above material was delivered to the generator site
listed above and delivered without incident.

Name of Driver (print / type) RITHIE Pordley Signature of Driver [Signature] Date 4-6-21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes: DIRT_LD_Y Ticket # 204129
Charge To: 2140 Other: _____

Volume Received: _____ Tons: _____ Other: _____
Grid: _____ Elevation: _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date 4/4/21

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

DATE IN: 04/06/2021 TIME IN: 13:34:58
DATE OUT: 04/06/2021 TIME OUT: 13:34:58
OUTBOUND TICKET Number: 03-02061629

SCALE 4 GROSS WT. 50280 LB
STORED TAKE WT. 20980 LB
NET WEIGHT 29300 LB

Qty Description Amount
10.00 DirtOutLoadByLandfill

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 8am-5pm, Sat 8am-2pm
Phone: 303-673-9431

ZIP: 80021

Phone #: 303-833-5670

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Manifest Number: 894

DIRT OUT

Generator

Weighted: Tammy N.
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Site Name: Facility 8
Address: Robert Ruge
#1

City, State: _____
Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

Out from Front _____ Consultant: _____
Landfill _____ Address: _____

City, State: _____
Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

Material represented on the Special Waste Application identified by the above Special
delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____ Shipment Date 4-6-21

Transporter Information

Company Name: Effman
Address: County Road 22
CO

I hereby warrant that the above material was delivered to the generator site
listed above and delivered without incident.

Signature of Driver _____ Date 4-6-21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes: DIRT_LD_Y
Charge To: 2140

Volume Received: 15 Tons 200000 Other _____
Grid: _____ Elevation: _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date 4/4/21
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

Vehicle ID: KP_505
Reference: UNSCRND21
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
Manifest#: 894

DATE IN: 04/06/2021 TIME IN: 13:34:58
DATE OUT: 04/06/2021 TIME OUT: 13:34:58

OUTBOUND TICKET Number: 03-02061629

SCALE 4 GROSS WT. 50280 LB
STORED TAKE WT. 20980 LB
NET WEIGHT 29300 LB

Qty Description Amount
10.00 DirtOutLoadByLandfill

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 8am-5pm, Sat 8am-2pm
Phone: 303-673-9431

Name of Driver (print / type) RITHIE Penderley Phone #: 303-833-5670
Signature of Driver _____ Date 4-6-21

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Manifest Number: 895

DIRT OUT

Generator

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Generator Name: Facility 8
Address: Robert Kyrge #1

City, State: _____ Zip: _____

City, State: _____ Zip: _____

Contact Person: _____ Phone #: _____ Fax: _____

Consultant: _____
Dirt-Out from Front Range Landfill Address: _____

City, State: _____ Zip: _____

Contact Person: _____

Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special
is delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent [Signature] Shipment Date 4-6-21

Transporter Information

Transporter Name: kauffman
Address: County Road 22
City, State: nton, CO
Phone: 3-5670

I hereby warrant that the above material was delivered to the generator site
listed above and delivered without incident.

Name of Driver (print/type) ATCHELLE Hendley Signature of Driver [Signature] Date 4-6-21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes DIRT_LD_Y
Charge To 2140

Volume Received Ticket # 2001729
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print/type) _____ Signature of Landfill's Authorized Agent _____ Date 4-6-21

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

DATE IN: 04/06/2021 TIME IN: 15:06:06
DATE OUT: 04/06/2021 TIME OUT: 15:06:06
OUTBOUND TICKET Number: 03-02061729
MANUAL GROSS WT. 49140 LB
STORED TARE WT. 20980 LB
NET WEIGHT 28160 LB

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

X _____

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_505
Reference: FRI6050
Grid: FRL-WK1
NOTES:: PETROLEUM CONT SOIL DRILL CUTT
YARDS:: K P KAUFFMAN
PJ#: BY TON
Manifest#: 4508

DATE IN: 04/06/2021 TIME IN: 09:42:22
DATE OUT: 04/06/2021 TIME OUT: 09:42:22

INBOUND TICKET Number: 03-02061386

Qty	Description	Amount
	SCALE 1 GROSS WT.	51500 LB
	STOED TARE WT.	20980 LB
	NET WEIGHT	30520 LB
15.26	ContSoil-E&P/Ton	

-HAZARDOUS WASTE MANIFEST

Manifest Number: **4508**
Approval Number: FRI6050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

uffman
ounty Road 22
ton, CO
City, State:
Zip:
Contact Person:
Kauffman
Phone #:
Fax:

Site Name: Fertility 8
Address: Robert Prange #1
City, State:
Zip:
Contact Person:
Phone #:
Fax:

Petroleum Contaminated Soil
Consultant:
Address:

E&P Exempt: Petroleum Contaminated Soil
City, State:
Zip:

Yards Tons Contact Person:
Phone #:
Fax:

is the same material represented on the Special Waste Application identified by the above Special was delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent: [Signature] Shipment Date: 4-6-21

Transporter Information (transporter to complete)

finan Well Service
County Road 22
upton, CO

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

Phone #: 303-833-5670

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) RITCHIE Bendley Signature of Driver [Signature] Date 4-6-21

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WGR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes PCSEP_TON
Charge To 2140

Volume Received Ticket # 3001386
Yards 10 Tons 15.26 Other
Grid Elevation

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____

White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

HAZARDOUS WASTE MANIFEST

Manifest Number: **4509**
 Approval Number: FR16050
 Expiration Date: 2/27/2022

Front Range Landfill
 FRONT RANGE LANDFILL
 PO Box 320
 Erie, CO 80516

Weighted: AMY B
 BILL TO: 2140
 K P KAUFFMAN COMPANY
 1675 BROADWAY STE 2800
 DENVER CO 80202-4519

Vehicle ID: KP_505
 Reference: FR16050
 Grid: FRL-WK1
 NOTES:: PETROLEUM CONT SOIL DRILL CUTT
 YARDS:: K P KAUFFMAN
 PO#: BY TON
 Manifest#: 4509

DATE IN: 04/06/2021 TIME IN: 11:25:20
 DATE OUT: 04/06/2021 TIME OUT: 11:25:20

INBOUND TICKET Number: 03-02061491
 SCALE 1 GROSS WT. 51640 LB
 STORED TARE WT. 20980 LB
 NET WEIGHT 30660 LB

Qty Description Amount
 15.33 ContSoil-E&P/Ton

Generator Information (generator to complete)

Generator Name: Kauffman Site Name: Facility 8
 Address: County Road 22 Address: Roberts Barge
 Location: County Road 22 City, State: _____
 Zip: _____
 Contact Person: _____
 Phone #: _____ Fax: _____

Petroleum Contaminated Soil Consultant: _____
 Address: _____
 E&P Exempt: Petroleum City, State: _____
 Contaminated Soil Zip: _____
 Yards Tons Contact Person: _____
 Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special is delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent: [Signature] Shipment Date: 4-6-21

Transporter Information (transporter to complete)

Company Name: Man Well Service
 Address: County Road 22
 Location: Upton, CO
 Phone: _____

Important Notice
 Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

Phone #: 303-833-5670

I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type): RITCHE BENDLEY Signature of Driver: [Signature] Date: 4-6-21

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
 1830 WCR 5 POB 320
 Erie, CO 80516
 Phone: 303-673-9431
 Fax: 303-673-9432

Waste Codes: PCSEP_TON
 Charge To: 2140

Volume Received: _____ Ticket # 2061491
 Yards: _____ Tons: _____ Other: _____
 Grid: _____ Elevation: _____

Landfill Authorized Agent Name (print / type): AB Signature of Landfill's Authorized Agent: AB Date: 4-6-21
 White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighed: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: KP_505
Reference: FR16050
Gr-id: FRL-WK1
NOTES:: PETROLEUM CONT SOIL DRILL CUTT
YARDS:: K P KAUFFMAN
PG#:: BY TON
Manifest#: 4510

DATE IN: 04/06/2021 TIME IN: 13:12:42
DATE OUT: 04/06/2021 TIME OUT: 13:12:42

INBOUND TICKET Number: 03-02061600

SCALE 1 GROSS WT.	51100 LB
STORED TARE WT.	20980 LB
NET WEIGHT	30120 LB

Qty	Description	Amount
15.06	ContSoil-E&P/Ton	

HAZARDOUS WASTE MANIFEST

Manifest Number: **4510**
Approval Number: FR16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Offman
County Road 22
on, CO
Kauffman
Contact Person:
Phone #:
Fax:

Site Name: Facility 8
Address: Robert Surge
City, State: #7 Surge
Zip:

Petroleum Contaminated Soil
Consultant:
Address:

E&P Exempt: Petroleum Contaminated Soil
City, State:
Zip:

Yards Tons Contact Person:
Phone #: Fax:

The same material represented on the Special Waste Application identified by the above Special was delivered to the transporter on the shipment date referenced below.

Name (type) Signature of Generator's Authorized Agent Shipment Date

Transporter Information (transporter to complete)

man Well Service
County Road 22
pton, CO

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

Phone #: 303-833-5670

Name of Driver (print / type)

Signature of Driver

Date

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
PCSEP_TON
Charge To 2140

Volume Received Ticket #
Yards Tons Other
Grid Elevation

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent

Date

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

HAZARDOUS WASTE MANIFEST

Manifest Number: **4511**
 Approval Number: FRI6050
 Expiration Date: 2/27/2022

Front Range Landfill
 FRONT RANGE LANDFILL
 PO Box 320
 Erie, CO 80516

Weighted: JOYCE
 BILL TO: 2140
 K P KAUFFMAN COMPANY
 1675 BROADWAY STE 2800
 DENVER CO 80202-4519

Vehicle ID: KP_505
 Reference: FRI6050
 Grid: FRL-MK1
 NOTES: PETROLEUM CONT SOIL DRILL CUTT
 YARDS: K P KAUFFMAN
 PO#: BY TON
 Manifest#: 4511

DATE IN: 04/06/2021 TIME IN: 14:42:49
 DATE OUT: 04/06/2021 TIME OUT: 14:42:49
 INBOUND TICKET Number: 03-02061700

Qty	Description	Amount
52580	SCALE 1 GROSS WT.	LB
20980	STORED TARE WT.	LB
31600	NET WEIGHT	LB
15.80	ContSoil-E&P/Ton	

Generator Information (generator to complete)

Site Name: Facility 8
 Address: Robert George #1
CO City, State: _____ Zip: _____
 Contact Person: _____
 Phone #: _____ Fax: _____

oleum Contaminated Consultant: _____ Address: _____
 Exempt: Petroleum City, State: _____
 aminated Soil Zip: _____
 Tons Contact Person: _____
 Phone #: _____ Fax: _____

Material represented on the Special Waste Application identified by the above Special
 referred to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____ Shipment Date 4-6-21

Transporter Information (transporter to complete)

Service _____
 Road 22 _____

Important Notice
 Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

Phone #: 303-833-5670

Name of Driver (print / type) RITCHIE Penclay Signature of Driver Ritchie Penclay Date 4-6-21

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
 1830 WCR 5 POB 320
 Erie, CO 80516
 Phone: 303-673-9431
 Fax: 303-673-9432

Waste Codes PCSEP_TON
 Charge To 2140

Volume Received _____ Ticket # 2061700
 Yards _____ Tons _____ Other _____
 Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____
 White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Manifest Number: 926

DIRT OUT

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: SCREENED
Grid: FRL-MK1
NOTES: SCREENED DIRT
YARDS: KP KAUFFMAN
PO#: XTREME SERVICES # 15
Manifest#: 926

DATE IN: 04/07/2021 TIME IN: 13:19:07
DATE OUT: 04/07/2021 TIME OUT: 13:19:07
OUTBOUND TICKET Number: 03-02062214

Qty	Description	Amount
	MANUAL GROSS WT.	47960 LB
	MANUAL TARE WT.	23000 LB
	NET WEIGHT	24960 LB
10.00	DirtyOutLoadByLandfill	

X _____

Generator

Kauffman
County Road 22
ton, CO
City, State:
Zip:
Lara-Mesa
Contact Person:
Phone #:
Fax:

Site Name: Robertburg 1
Address:
City, State:
Zip:
Contact Person:
Phone #:
Fax:

Dirt-Out from Front Range Landfill
Consultant:
Address:
City, State:
Zip:
Contact Person:
Phone #:
Fax:

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Signature of Generator's Authorized Agent _____ Shipment Date 4/7/21
Transporter Information

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.
Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

33-5670
I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type) 1. V. V. MESA Signature of Driver P. B. B. Date 4/7/21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
DIRT_LD_Y

Charge To
2140

Volume Received Ticket # 20022314
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date 4-7-21
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Manifest Number: 920

DIRT OUT

Generator

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Offman _____ Site Name: Robert Large 2
County Road 22 _____ Address: _____
on, CO _____ City, State: _____
Zip: _____
Contact Person: _____
Contact Person: _____
City, State: _____
Zip: _____
Phone #: _____ Fax: _____
Fax: _____

Vehicle ID: UNSCRND21
Reference: FRL-WK1
Grid: UNSCREENED DIRT
NOTES: K P KAUFFMAN
YARDS: 920
Manifest#: 920

DATE IN: 04/07/2021 TIME IN: 10:23:33
DATE OUT: 04/07/2021 TIME OUT: 10:23:33
OUTBOUND TICKET Number: 03-02062014

SCALE 4 GROSS WT. 47660 LB
MANUAL TARE WT. 24300 LB
NET WEIGHT 23360 LB

Qty Description Amount
10.00 DirtOutLoadByLandfill

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Signature of Generator's Authorized Agent _____ Shipment Date 4/7/21

Transporter Information

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.
Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Phone #: 303-833-5670

Name of Driver (print / type) _____ Signature of Driver _____ Date 4/7/21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes _____ Charge To _____
DIRT_LD_Y _____
2140 _____

Volume Received Ticket # 2068014
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____

White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Manifest Number: 923

DIRT OUT

Weighed: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BRADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: UNSCRND21
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
PO#: XTREME SERVICES # 19
Manifest#: 923

DATE IN: 04/07/2021 TIME IN: 12:53:39
DATE OUT: 04/07/2021 TIME OUT: 12:53:39
OUTBOUND TICKET Number: 03-02062184

Qty	Description	Amount
	MANUAL GROSS WT.	46180 LB
	MANUAL TARE WT.	24200 LB
	NET WEIGHT	21980 LB

10.00 DirTouTloadByLandfill

X _____

Generator

Kauffman
County Road 22
nton, CO
City, State:
Zip:
Lara-Mesa
Contact Person:
Phone #:
Fax:

Dirt-Out from Front Range Landfill
Consultant:
Address:
City, State:
Zip:

Contact Person:
Phone #:
Fax:

is the same material represented on the Special Waste Application identified by the above Special was delivered to the transporter on the shipment date referenced below.

Int / type _____ Signature of Generator's Authorized Agent _____ Shipment Date 4-7-21

Transporter Information

Kauffman
County Road 22
upton, CO
1

333-5670
I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type) _____ Signature of Driver _____ Date 4/7/21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
DIRT_LD_Y
Charge To 2140

Volume Received	Ticket #
Yards <u>10</u> Tons _____ Other _____	<u>2025784</u>
Grid _____	Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date 4-7-21

White: Landfill
Yellow: Generator
Pink: Transporter
Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: UNSCRND21
Reference: FRL-WK1
Grid:
NOTES:: UNSCREENED DIRT
YARDS:: K P KAUFFMAN
Manifest#: 921

DATE IN: 04/07/2021 TIME IN: 11:43:23
DATE OUT: 04/07/2021 TIME OUT: 11:43:23

OUTBOUND TICKET Number: 03-02062115

SCALE 4 GROSS WT. 46820 LB
MANUAL TARE WT. 23000 LB
NET WEIGHT 23820 LB

Qty Description Amount
10.00 DirttoLndByLandfill

Manifest Number: 921

DIRT OUT

Generator

Company Name: Robert Ludwig
Address: _____
City, State: _____
Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

Out from Front _____ Consultant: _____
Landfill _____ Address: _____
City, State: _____
Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Signature of Generator's Authorized Agent _____ Shipment Date 4/7/21

Transporter Information

Company Name: _____
Address: _____
City, State: CO

Hours: M-F 8am-5pm, Sat 8am-2pm
Phone: 303-833-5670

Phone #: 303-833-5670

Name of Driver (print / type) Robert Ness

Signature of Driver _____

Date 4/11/21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes DIRT_LD_Y
Charge To 2140

Volume Received _____ Ticket # 2060115
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____

Signature of Landfill's Authorized Agent _____

Date 4/7/21

The material delivered above was received at the landfill.

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

Front Range Landfill
 FRONT RANGE LANDFILL
 PO Box 320
 Erie, CO 80516

Weighted: JOYCE
 BILL TO: 2140
 K P KAUFFMAN COMPANY
 1675 BROADWAY STE 2800
 DENVER CO 80202-4519

Vehicle ID: UNSCRAND21
 Reference: FRL-MK1
 Grid: UNSCREENED DIRT
 NOTES: K P KAUFFMAN
 YARDS:
 Manifest#: 924

DATE IN: 04/07/2021 TIME IN: 11:47:14
 DATE OUT: 04/07/2021 TIME OUT: 11:47:14

OUTBOUND TICKET Number: 03-02062119

SCALE 4 GROSS WT.	47420	LB
MANUAL TARE WT.	24200	LB
NET WEIGHT	23220	LB

Qty Description
 10.00 Dirt/OutloadByLandfill

DIRT OUT

Generator

Site Name: Robert Berger
 Address: _____
 Pad 22

City, State: _____
 Zip: _____

Contact Person: _____
 Phone #: _____ Fax: _____

From Front _____ Consultant: _____
 Landfill _____ Address: _____
 City, State: _____
 Zip: _____

Contact Person: _____
 Phone #: _____ Fax: _____

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Signature of Generator's Authorized Agent _____ Shipment Date 4-7-21

Information

I/WE THE UNDERSIGNED, CERTIFY THAT THE WASTE DELIVERED FOR DISPOSAL IS NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 8am-5pm, Sat 8am-2pm
 Phone: 303-673-9431

Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type) Dan Zuck

Signature of Driver _____

Date 4-7-21

Front Range Landfill Information

Front Range Landfill
 1830 WCR 5 POB 320
 Erie, CO 80516
 Phone: 303-673-9431
 Fax: 303-673-9432

Waste Codes DIRT_LD_Y
 Charge To 2140

Volume Received Ticket # 2069119
 Yards 10 Tons _____ Other _____
 Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____

Signature of Landfill's Authorized Agent _____

Date _____

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: SCREENED
Grid: FRL-WK1
NOTES: SCREENED DIRT
YARDS: KP KAUFFMAN
PO#: XTREME SERVICES # 33
Manifest#: 925

DATE IN: 04/07/2021 TIME IN: 13:27:15
DATE OUT: 04/07/2021 TIME OUT: 13:27:15
OUTBOUND TICKET Number: 03-02062227

MANUAL GROSS WT. 49220 LB
MANUAL TARE WT. 24200 LB
NET WEIGHT 25020 LB

Qty Description Amount
10.00 Dirt-toutloadBylandfill

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.
Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
Charge To

DIRT_LD_Y
2140

Volume Received Ticket # 20002227
Yards 10 Tons Other
Grid Elevation

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

DIRT OUT

Manifest Number: 925

Generator

Generator Name: kauffman Site Name: Rebel burge 1
Address: ounty Road 22
City, State: _____ Zip: _____
Lara-Mesa Contact Person: _____
Phone #: _____ Fax: _____

Dirt-Out from Front Consultant:
Range Landfill Address: _____
City, State: _____ Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

the same material represented on the Special Waste Application identified by the above Special as delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent

Shipment Date

Transporter Information

Transporter Name: kauffman
Address: ounty Road 22
City, State: oton, CO
Phone: 3-5670

I hereby warrant that the above material was delivered to the generator site listed above and delivered without incident.

Name of Driver (print / type) _____ Signature of Driver _____ Date 4-7-21

Front Range Landfill Information

The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FR16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: XTREME SERVICES # 33
Manifest#: 4523

DATE IN: 04/07/2021 TIME IN: 09:51:59
DATE OUT: 04/07/2021 TIME OUT: 09:51:59

INBOUND TICKET Number: 03-02061972

SCALE 1 GROSS WT.	48300 LB
MANUAL TARE WT.	24200 LB
NET WEIGHT	24100 LB

Qty Description Amount
12.05 ContSoil1-E&P/Ton

-HAZARDOUS WASTE MANIFEST

Manifest Number: **4523**
Approval Number:
Expiration Date:

Generator Information (generator to complete)

Company Name: Kaufman Site Name: XTREME SERVICES
County Road 22 Address: 2172
City, State: Thornton, CO Zip: 80131
Contact Person: _____

Fax: _____ Phone #: _____ Fax: _____

Petroleum Contaminated Soil Consultant: _____ Address: _____

E&P Exempt: Petroleum Contaminated Soil City, State: _____ Zip: _____

Yards: Tons Contact Person: _____ Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special was delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____ Shipment Date _____

Transporter Information (transporter to complete)

Company Name: Urban Well Service
County Road 22
City, State: Thornton, CO

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

Phone: 33-5670 I hereby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) Tom Zerk

Signature of Driver _____

Date 4-7-21

Section 3

Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
PCSEP_TON
Charge To 2140

Volume Received Ticket # 20061972
Yards _____ Tons 2005 Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type)

Signature of Landfill's Authorized Agent _____

Date 4-7-21

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FR16050
Grid: FRL-WK1
NOTES:: PETROLEUM CONT SOIL DRILL CUTT
YARDS:: K P KAUFFMAN
PG#:: XTREME SERVICES # 33
Manifest#: 4527

DATE IN: 04/07/2021 TIME IN: 12:59:24
DATE OUT: 04/07/2021 TIME OUT: 12:59:24

INBOUND TICKET Number: 03-02062194

SCALE 1 GROSS WT. 44840 LB
MANUAL TARE WT. 24200 LB
NET WEIGHT 20640 LB

Qty Description Amount
10.32 ContSoil-E&P/Ton

1/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

HAZARDOUS WASTE MANIFEST

Manifest Number: **4527**
Approval Number: FR16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Kauffman
County Road 22
Site Name: 2062194
Address: _____
City, State: _____
Zip: _____
on, CO

Kauffman
Contact Person: _____
Phone #: _____ Fax: _____

Fax: _____ Phone #: _____ Fax: _____

Petroleum Contaminated Soil
Consultant: _____
Address: _____

E&P Exempt: Petroleum Contaminated Soil
City, State: _____ Zip: _____

Yards Tons Contact Person: _____
Phone #: _____ Fax: _____

is the same material represented on the Special Waste Application identified by the above Special
was delivered to the transporter on the shipment date referenced below.

nt / type) Signature of Generator's Authorized Agent Shipment Date

Transporter Information (transporter to complete)

Iman Well Service
County Road 22
Apton, CO
I hereby warrant that the above material was picked up at the generator site
listed above and delivered without incident to the destination listed below.
33-5670

Important Notice
Disposal facility below must be
notified in ADVANCE before delivery
of waste with SPECIAL HANDLING
instructions.

Name of Driver (print / type) Signature of Driver Date

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WGR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432
Waste Codes PCSEP_TON
Charge To 2140
Volume Received 2062194 Ticket # 2062194
Yards _____ Tons 10.32 Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) Signature of Landfill's Authorized Agent Date

White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: UNSCRND21
Reference: FRL-WK1
Grid: FRL-WK1
NOTES: UNSCREENED DIRT
YARDS: K P KAUFFMAN
Manifest#: 922

DATE IN: 04/07/2021 TIME IN: 10:21:11
DATE OUT: 04/07/2021 TIME OUT: 10:21:11
OUTBOUND TICKET Number: 03-02062011

SCALE 4 GROSS WT. 53340 LB
MANUAL TARE WT. 24200 LB
NET WEIGHT 29140 LB

Qty Description Amount
10.00 DirtOutloadByLandfill

DIRT OUT

Manifest Number: 922

Generator

City: Front Range
Address: City Road 22
State: CO
City, State: _____
Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

City, State: _____
Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

City, State: _____
Zip: _____

Contact Person: _____
Phone #: _____ Fax: _____

Material represented on the Special Waste Application identified by the above Special
ed to the transporter on the shipment date referenced below.

Generator's Authorized Agent Signature _____ Shipment Date 4-7-21

Transporter Information

Transporter Name: K.P. Kauffman
Address: 8979 County Road 22
City, State: Ft. Lupton, CO
Zip: 80621
Phone #: 303-833-5670

I hereby warrant that the above material was delivered to the generator site
listed above and delivered without incident.

Name of Driver (print / type) Don Zacks Signature of Driver _____ Date 4-7-21

Front Range Landfill Information

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Waste Codes
DIRT_LD_Y
Charge To 2140

Volume Received Ticket # 2062011
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant

The material delivered above was received at the landfill.

Operating Hours: M-F 8am-5pm, Sat 8am-2pm
Phone: 303-673-9431

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FR16050
Grid: FRL-WK1
NOTES:: PETROLEUM CONT SOIL DRILL CUT
YARDS:: K P KAUFFMAN
PO#:: XTREME SERVICES # 33
Manifest#: 4521

DATE IN: 04/07/2021 TIME IN: 11:27:12
DATE OUT: 04/07/2021 TIME OUT: 11:27:12

INBOUND TICKET Number: 03-02062090

Qty	Description	Amount
	SCALE 1 GROSS WT.	46580 LB
	MANUAL TARE WT.	24200 LB
	NET WEIGHT	22380 LB
11.19	ContSoil-E&P/Ton	

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 8am-5pm, Sat 8am-2pm
Phone: 303-673-9431

HAZARDOUS WASTE MANIFEST

Manifest Number: **4521**
Approval Number: FR16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Kauffman
County Road 22
Erie, CO
City, State:
Zip:
Contact Person:
Phone #: Fax:

Petroleum Contaminated Soil
E&P Exempt: Petroleum Contaminated Soil
City, State:
Zip:
Contact Person:
Phone #: Fax:

the same material represented on the Special Waste Application identified by the above Special
as delivered to the transporter on the shipment date referenced below.
Signature of Generator's Authorized Agent
Shipment Date
Yards Tons Contact Person: Phone #: Fax:

Transporter Information (transporter to complete)

Man Well Service
County Road 22
Erie, CO
City, State:
Zip:
Contact Person:
Phone #: Fax:

Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I herby warrant that the above material was picked up at the generator site listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) Tom Carole Signature of Driver [Signature] Date 4-7-21
Section 3 Destination Information (disposal facility to complete)

Front Range Landfill 1830 WCR 5 POB 320 Erie, CO 80516 Phone: 303-673-9431 Fax: 303-673-9432
Waste Codes PCSEP_TON Charge To 2140
Volume Received Yards Tons Other Grid Ticket # Elevation

Landfill Authorized Agent Name (print / type) [Signature] Signature of Landfill's Authorized Agent [Signature] Date 4-7-21
White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMY B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FRI16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: XTREME SERVICES # 15
Manifest#: 4525

DATE IN: 04/07/2021 TIME IN: 12:51:18
DATE OUT: 04/07/2021 TIME OUT: 12:51:18

INBOUND TICKET Number: 03-02062183

SCALE 1 GROSS WT. 44740 LB
MANUAL TARE WT. 23000 LB
NET WEIGHT 21740 LB

Qty Description Amount
10.87 ContSoil-E&P/Ton

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Name of Driver (print / type)
Rayne Acker

Signature of Driver
[Signature]

Date
4/11/21

HAZARDOUS WASTE MANIFEST

Manifest Number: **4525**
Approval Number: FRI16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

Company Name: *Kauffman* Site Name: *Rocky A Bridge #1*
County Road 22 Address:
City, State: _____ Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

Petroleum Contaminated Soil Consultant: _____
Address: _____

E&P Exempt: Petroleum City, State: _____
Contaminated Soil Zip: _____

Yards Tons Contact Person: _____
Phone #: _____ Fax: _____

The same material represented on the Special Waste Application identified by the above Special
was delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____ Shipment Date _____

Transporter Information (transporter to complete)

Company Name: *Urban Well Service*
County Road 22
City, State: _____ Zip: _____
Important Notice
Disposal facility below must be
notified in ADVANCE before delivery
of waste with SPECIAL HANDLING
instructions.

33-5670 I hereby warrant that the above material was picked up at the generator site
listed above and delivered without incident to the destination listed below.

Destination Information (disposal facility to complete)

Front Range Landfill Waste Codes
1830 WGR 5 POB 320 PCSEP_TON
Erie, CO 80516
Phone: 303-673-9431 Charge To
Fax: 303-673-9432 2140
Volume Received Ticket # *20052183*
Yards Tons Other
Grid Elevation

Landfill Authorized Agent Name (print / type) _____ Signature of Landfill's Authorized Agent _____ Date _____

White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Manifest Number: **4524**

-HAZARDOUS WASTE MANIFEST

Approval Number: FR16050

Expiration Date: 2/27/2022

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: AMV B
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID:
Reference: FR16050
Grid: FRL-WK1
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: XTREME SERVICES # 15
Manifest#: 4524

DATE IN: 04/07/2021 TIME IN: 11:14:30
DATE OUT: 04/07/2021 TIME OUT: 11:14:30

INBOUND TICKET Number: 03-02062079

SCALE 1 GROSS WT. 44900 LB
MANUAL TARE WT. 23000 LB
NET WEIGHT 21900 LB

Qty Description Amount
10.95 ContSoil-E&P/Ton

Generator Information (generator to complete)

uffman
ounty Road 22
Site Name: Robert Palmer #1
Address: _____
ton, CO
City, State: _____
Zip: _____
Kauffman
Contact Person: _____

Fax: _____ Phone #: _____ Fax: _____

Petroleum Contaminated Consultant:
Soil Address: _____

E&P Exempt: Petroleum City, State: _____
Contaminated Soil Zip: _____

Yards Tons Contact Person: _____

Phone #: _____ Fax: _____

is the same material represented on the Special Waste Application identified by the above Special
was delivered to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____ Shipment Date _____

Transporter Information (transporter to complete)

man Well Service
County Road 22
apton, CO
33-5670
Important Notice
Disposal facility below must be notified in ADVANCE before delivery of waste with SPECIAL HANDLING instructions.

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.
Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

I herby warrant that the above material was picked up at the generator site
listed above and delivered without incident to the destination listed below.

Name of Driver (print/ type) _____ Date 4/11/2021
Signature of Driver _____

Section 3 Destination Information (disposal facility to complete)

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432
Waste Codes PCSEP_TON
Charge To 2140
Volume Received Ticket # 2020079
Yards _____ Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print/ type) _____ Signature of Landfill's Authorized Agent _____ Date 4-7-21

White: Landfill Yellow: Generator Pink: Transporter Gold: Consultant
The material delivered above was received at the landfill.

AZARDOUS WASTE MANIFEST

Front Range Landfill
FRONT RANGE LANDFILL
PO Box 320
Erie, CO 80516

Weighted: JOYCE
BILL TO: 2140
K P KAUFFMAN COMPANY
1675 BROADWAY STE 2800
DENVER CO 80202-4519

Vehicle ID: FRI16050
Reference: FRL-WK1
Grid: PETROLEUM CONT SOIL DRILL CUTT
NOTES: PETROLEUM CONT SOIL DRILL CUTT
YARDS: K P KAUFFMAN
PO#: BY TON
Manifest#: 4522

DATE IN: 04/07/2021 TIME IN: 12:23:10
DATE OUT: 04/07/2021 TIME OUT: 12:23:10

INBOUND TICKET Number: 03-02062161

Qty	Description	Amount
	SCALE 1 GROSS WT.	45540 LB
	MANUAL TARE WT.	24200 LB
	NET WEIGHT	21340 LB
10.67	ContSoil-E&P/Ton	

I/WE THE UNDERSIGNED, CERTIFY THAT THE
WASTE DELIVERED FOR DISPOSAL IS
NON-HAZARDOUS SOLID WASTE MATERIALS.

Operating Hours: M-F 6am-5pm, Sat 6am-2pm
Phone: 303-673-9431

Front Range Landfill
1830 WCR 5 POB 320
Erie, CO 80516
Phone: 303-673-9431
Fax: 303-673-9432

Manifest Number: **4522**
Approval Number: FRI16050
Expiration Date: 2/27/2022

Generator Information (generator to complete)

an
Road 22
Site Name: Robert Burger
Address: _____
City, State: _____
Zip: _____
Contact Person: _____
Phone #: _____ Fax: _____

Petroleum Contaminated Consultant:

Address: _____

Exempt: Petroleum City, State: _____
Uncontaminated Soil Zip: _____

Tons Contact Person: _____

Phone #: _____ Fax: _____

material represented on the Special Waste Application identified by the above Special
ed to the transporter on the shipment date referenced below.

Signature of Generator's Authorized Agent _____

Shipment Date _____

Transporter Information (transporter to complete)

II Service

Road 22

Important Notice
Disposal facility below must be
notified in ADVANCE before delivery
of waste with SPECIAL HANDLING
instructions.

I herby warrant that the above material was picked up at the generator site
listed above and delivered without incident to the destination listed below.

Name of Driver (print / type) _____

Signature of Driver _____

Date _____

Section 3

Destination Information (disposal facility to complete)

Waste Codes
Charge To

PCSEP_TON
2140

Volume Received Ticket # 2206216
Yards 10 Tons _____ Other _____
Grid _____ Elevation _____

Landfill Authorized Agent Name (print / type) _____

Signature of Landfill's Authorized Agent _____

Date _____

White: Landfill

Yellow: Generator

Pink: Transporter

Gold: Consultant

The material delivered above was received at the landfill.

**Appendix D: December 3, 2020 Site Investigation Report
(APEX Consulting)**

Prepared For

**K.P. KAUFFMAN COMPANY, INC.
WORLD TRADE CENTER
1675 BROADWAY, SUITE 2800
DENVER, CO 80202-4825**

**SPILL INVESTIGATION FOR
ROBERT G BERGE #2 FACILITY
HIGHWAY 52 AND WELD COUNTY ROAD 23
FORT LUPTON, WELD COUNTY, COLORADO**

**Date Issued: December 3, 2020
APEX Project Number 1-0025.030.00**

Prepared By

**APEX CONSULTING SERVICES, INC.
P.O. BOX 369
LOUISVILLE, CO 80027-0369**

December 3, 2020

Mr. Max Knop
K.P. Kauffman Company, Inc.
World Trade Center
1675 Broadway, Suite 2800
Denver, CO 80202-4825

RE: Spill Investigation For Robert G Berge #2 Facility, Highway 52 and Weld County Road 23, Weld County, Colorado

Dear Mr. Knop:

Apex Consulting Services, Inc. is pleased to provide the results of our Spill Investigation for the Robert G Berge #2 Facility, Highway 52 and Weld County Road 23, Weld County, Colorado. The following report details the field methods and findings of the investigation.

We appreciate the opportunity to provide environmental services for this project. If you have any questions concerning this report, or if we can assist you in any other matter, please call.

Sincerely,

APEX CONSULTING SERVICES, INC.



Michael D. Hattel, P.G., R.E.A.
Principal

TABLE OF CONTENTS

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2.0	FIELD ACTIVITIES	2
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APPENDIX

Appendix A	Figures
Appendix B	Boring Logs
Appendix C	Analytical Report

1.0 INTRODUCTION

Apex Consulting Services, Inc. (APEX) was retained by K.P. Kauffman Company, Inc. (KPK) to perform a spill investigation at the Robert G Berge #2 Facility (FACILITY). The FACILITY is located approximately 3/4-mile south of Highway 52 and 1/2-mile west of Weld County Road 23. The location of the flow line leak is illustrated on Figure 1 which is included in Appendix A. On June 15, 2020, a leak from a flowline was discovered. The leak was repaired and visually contaminated soil in the vicinity of the leak was excavated and disposed. On August 27, 2020, APEX collected a groundwater sample from a private water well located approximately 850' northwest of the FACILITY. APEX also collected surface water samples from the Brantner irrigation ditch (Located immediately east of the FACILITY) on August 27, 2020. Samples were collected approximately 300 feet upstream of the FACILITY, at the FACILITY and approximately 300 feet downstream of the FACILITY. Benzene, toluene, ethylbenzene and total xylenes (BTEX) compounds were not detected in any of the samples.

This investigation was requested by the Colorado Oil and Gas Conservation Commission (COGCC) and performed in accordance with a work plan approved by the COGCC.

2.0 FIELD ACTIVITIES

2.1 Utility Locates

Prior to initiating the field activities (soil borings), the State of Colorado law requires that, at least 48 hours prior to the initiation of any subsurface work (drilling, backhoe operation, etc.), a utility inspection be performed at the Property. This inspection consists of the marking of underground utility locations by authorized utility locating personnel. The utility inspection was performed prior to the probing activities.

2.2 Soil and Groundwater Sampling

On September 29, 2020, APEX contracted Drill Pro of Denver, Colorado to provide and operate probing equipment. Ms. Kari Brown with the COGCC was present during the investigation. Drill Pro, under the direction of APEX, advanced 10 probe borings (PB-1 through PB-10) with a direct-push, truck-mounted GeoProbe probe rig equipped with a four-foot long stainless-steel dual rod system. All drilling rods and/or sampling equipment were decontaminated between samples and/or borings to prevent cross-contamination. The borings were installed to terminal depths ranging from 12 to 16 feet below ground surface (BGS). The borings were completed in the vicinity of the flow line leak. The location of the borings is illustrated on Figure 2 which is included in Appendix A.

Soil samples (cores) were continuously collected from the borings. Fill (gravel) or top soil was present in the borings from the surface to depths of approximately two (2) foot BGS. The fill and top soil was underlain by

silty to sandy clay. Weathered claystone was present beneath the silty to sandy clay and present at depths ranging from eight (8) to 12 feet BGS. Groundwater was not encountered in any of the borings except boring PB-5. Soil cores were field screened for the presence of volatile organic compounds (VOC's) with a photo-ionization detector (PID). VOC's were detected at concentrations ranging from less than one (1) to 80 parts per million (ppm). The samples were also screened for odors, staining and/or discoloration. The soil samples from borings PB-1 and PB-2 exhibited VOC's, staining, odors and discoloration. Boring logs are included in Appendix B.

A soil sample from the core collected from borings PB-1 and PB-2 were selected for analysis. The samples were collected from areas in the core that exhibited the highest VOC concentration. Soil boring/sample locations are illustrated on Figure 2 which is included in Appendix A.

Following the completion of probing, boring PB-5 was completed as temporary monitoring well by placing polyvinyl chloride (PVC) casing and factory slotted screen in the soil boring. A groundwater sample was collected from temporary monitoring well with a disposable bailer.

The PVC casing and screen were removed from boring PB-5 following the collection of the groundwater sample. All the borings were backfilled with the soils derived from the drilling activities and hydrated bentonite.

2.3 Soil and Groundwater Analytical Results

The soil and groundwater samples were handled with clean, new, nitrile gloves and placed in laboratory supplied sample containers and labeled. The samples were placed in a cooler on ice and were delivered to Summit Scientific in Golden, Colorado for laboratory analysis. The soil and groundwater samples were analyzed for BTEX by EPA Method 8260. The soil samples were also analyzed for gasoline range organics (GRO) by EPA Method 8260 and total extractable petroleum hydrocarbons (TEPH) by EPA Method 8015.

The laboratory results indicate that BTEX compounds were not present above the laboratory reporting limit in the groundwater sample. Low BTEX compound concentrations were detected in each of the soil samples. GRO compounds were detected at respective concentrations of 130 and 35 milligrams per kilogram (mg/kg) in each of the samples collected from borings PB-1 (4 feet) and PB-2 (8 feet). Finally, TEPH compounds were detected at respective concentrations of 870 and 86 mg/kg from borings PB-1 (4 feet) and PB-2 (8 feet).

The laboratory analytical reports and chain-of-custody forms provided by eAnalytics Laboratory are included in Appendix C. The analytical results are summarized on Tables 1 and 2 which are also included in Appendix C.

3.0 CONCLUSIONS AND RECOMMENDATIONS

On June 15, 2020, a leak from a flowline was discovered. The leak was repaired and visually contaminated soil in the vicinity of the leak was excavated and disposed. On August 27, 2020, APEX collected a groundwater sample from a private water well located approximately 850' northwest of the FACILITY and three (3) samples from the Brantner Ditch. BTEX compounds were not detected in any of the samples.

On September 29, 2020, 10 soil probe borings (PB-1 through PB-10) were completed in the vicinity of the flow line leak. The borings were installed to terminal depths ranging from 12 to 16 feet below ground surface (BGS). Groundwater was not encountered in boring PB-5. VOC's were detected at concentrations ranging from less than 1 to 80 parts per million (ppm). Soil cores and samples were screened for odors, staining and/or discoloration. The soil cores and samples from borings PB-1 and PB-2 exhibited VOC's, staining, odors and discoloration. Soil samples from the core collected from borings PB-1 and PB-2 were selected for analysis. Also, a groundwater sample was collected from a temporary well completed in boring PB-5. The laboratory results indicate that BTEX compounds were not present above the laboratory reporting limit the groundwater sample collected from boring PB-5. Low BTEX compound concentrations were detected in the soil samples collected from boring PB-1 and PB-2. The detected concentrations are well below COGCC standards. GRO and TEPH compounds were also detected in the soil samples collected from boring PB-1 and PB-2. The combined GRO and TEPH concentration of 1000 mg/kg exceeds the COGCC standard of 500 mg/kg.




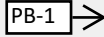
Based on the analytical results, soils in the immediate vicinity of boring PB-1 (at a depth of 4 feet) should be excavated and disposed. Also, BTEX compounds were not detected in any of the surface or groundwater samples submitted for analysis. Consequently, it does not appear that the spill has impacted surface or groundwater in the area.

APPENDIX A

FIGURES



Legend

-  Direction of Surface Flow
-  Release Location
Lat:40.07498 Long:-104.85437
-  Flow Line
-  Boring Location and Number

Date:	June 2020
Designed By:	K.P. Kauffman Co.
Drawn By:	MWK



K.P. Kauffman Company, Inc.
1675 Broadway, Suite 2800
Denver CO, 80202

K.P. Kauffman Company, Inc.
Robert G. Berge #2Release
SWSE, Section 2, Township 1 North, Range 67 West
Weld County, Colorado

FIGURE 1
SITE MAP

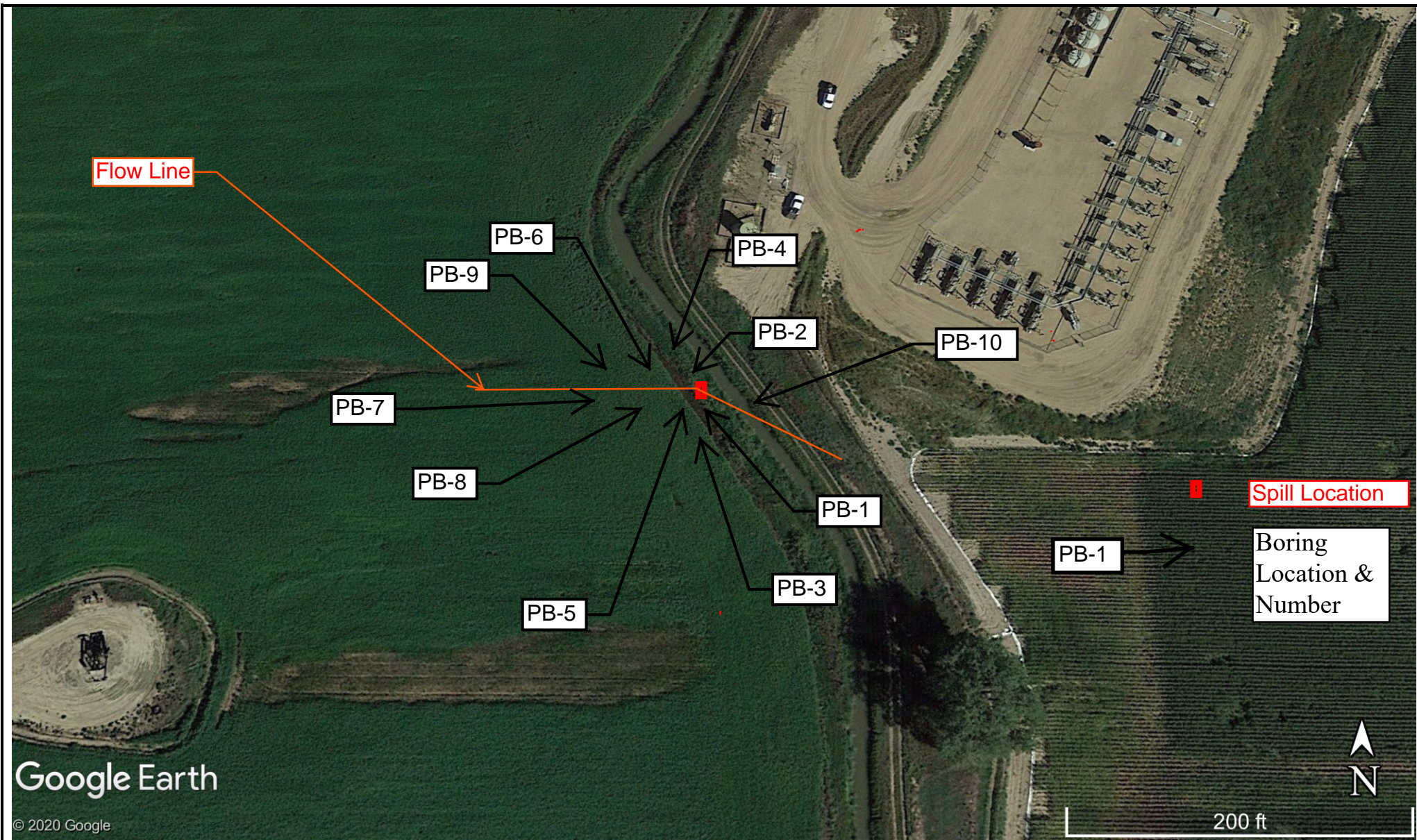


FIGURE 2: BORING MAP

Robert G. Berge #2
 SWSE, Section 2, Township 1 North,
 Range 67 West
 Weld County, Colorado



Google Earth
 Created: 2020
 Revised: None

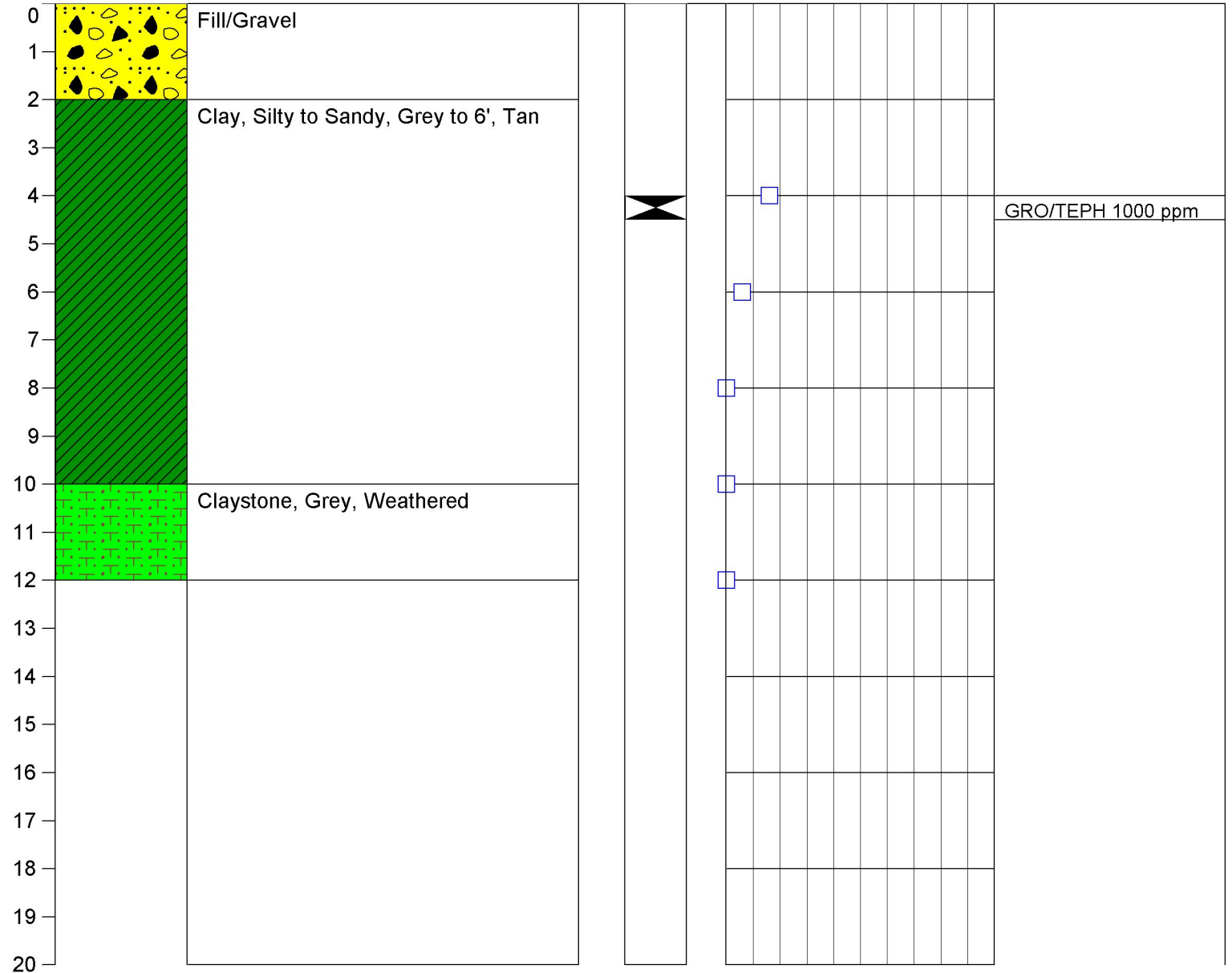
APEX CONSULTING SERVICES, INC.

APPENDIX B

BORING LOGS

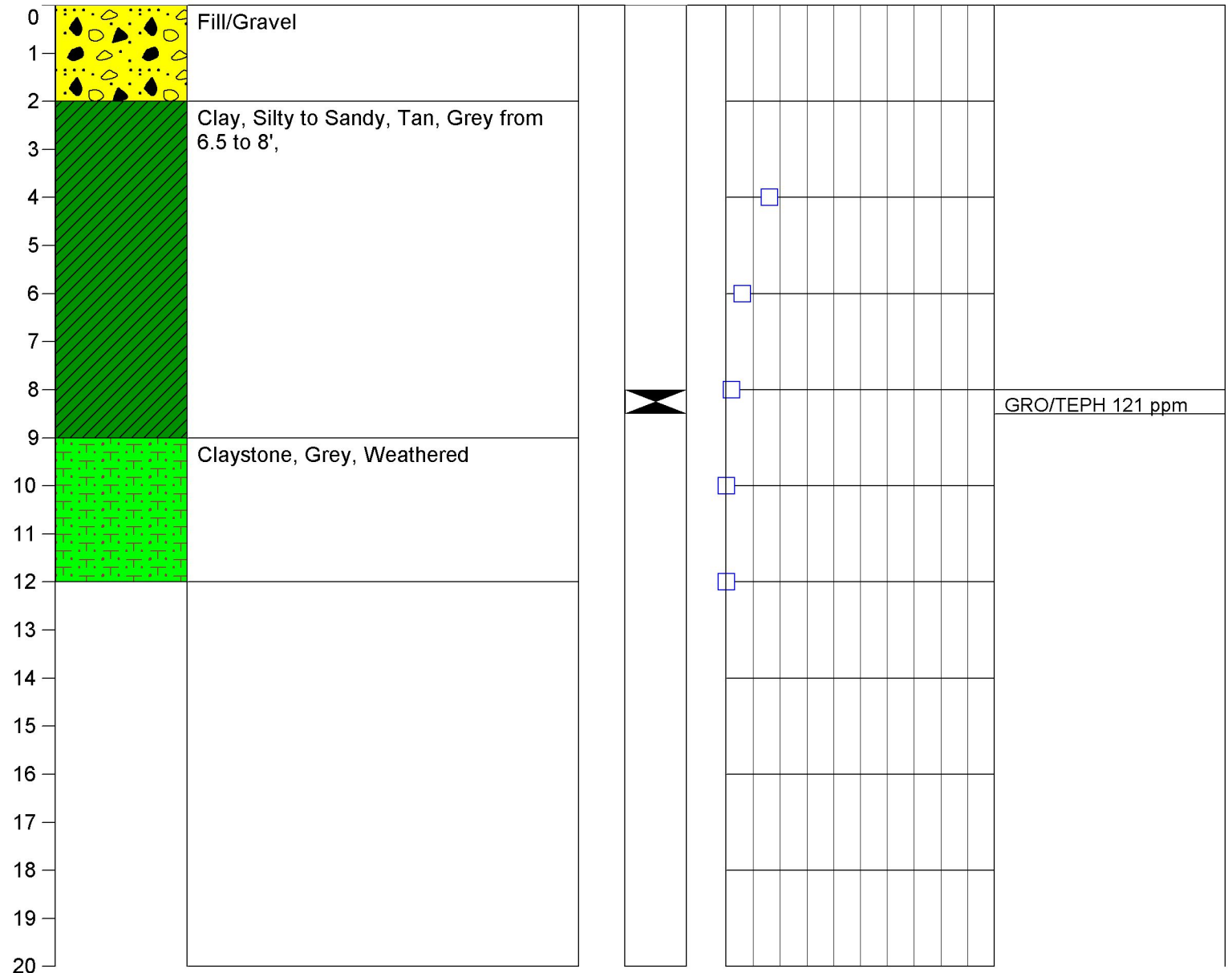
Project	Berge #2			Borehole # PB-1
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



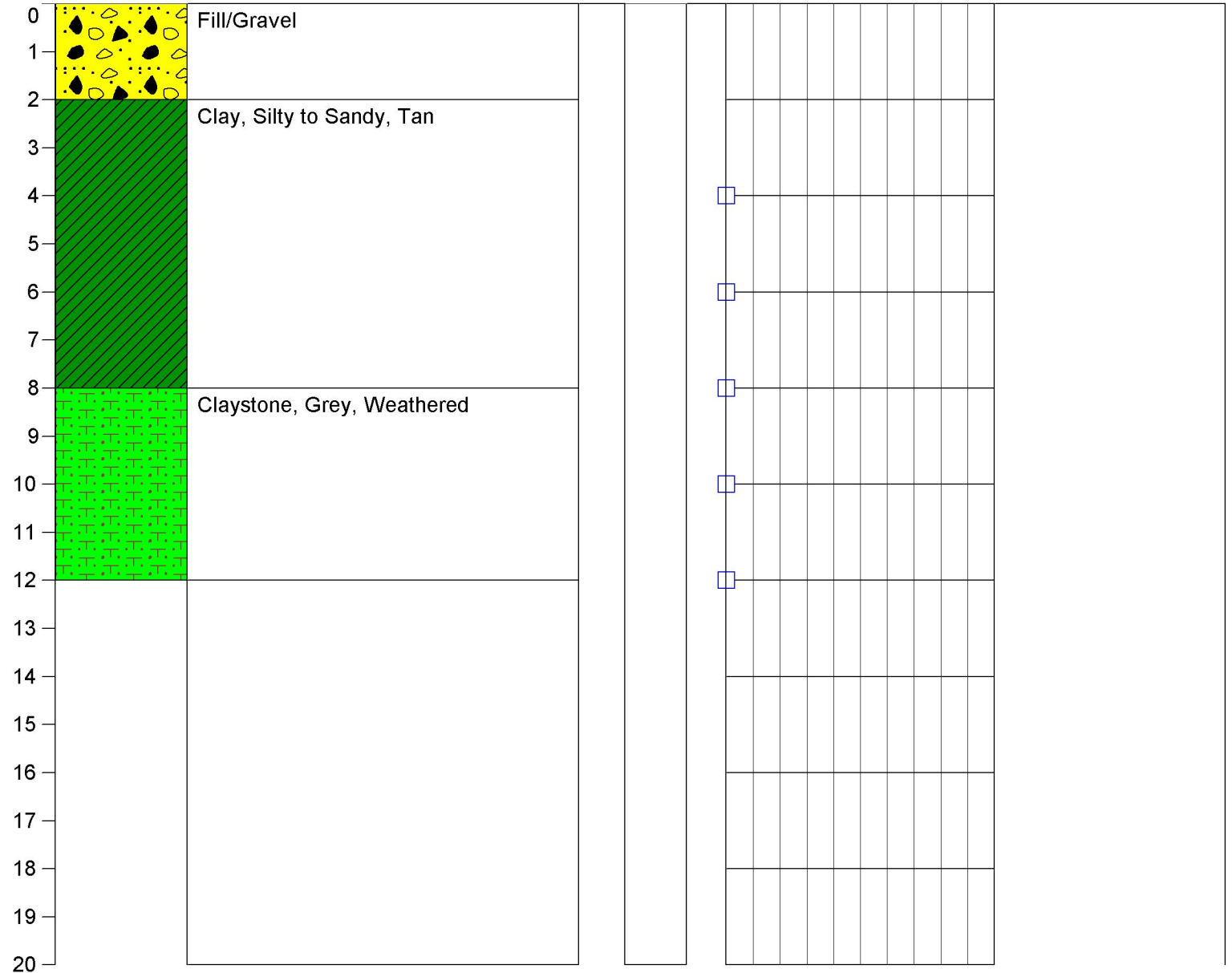
Project	Berge #2			Borehole # PB-2
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



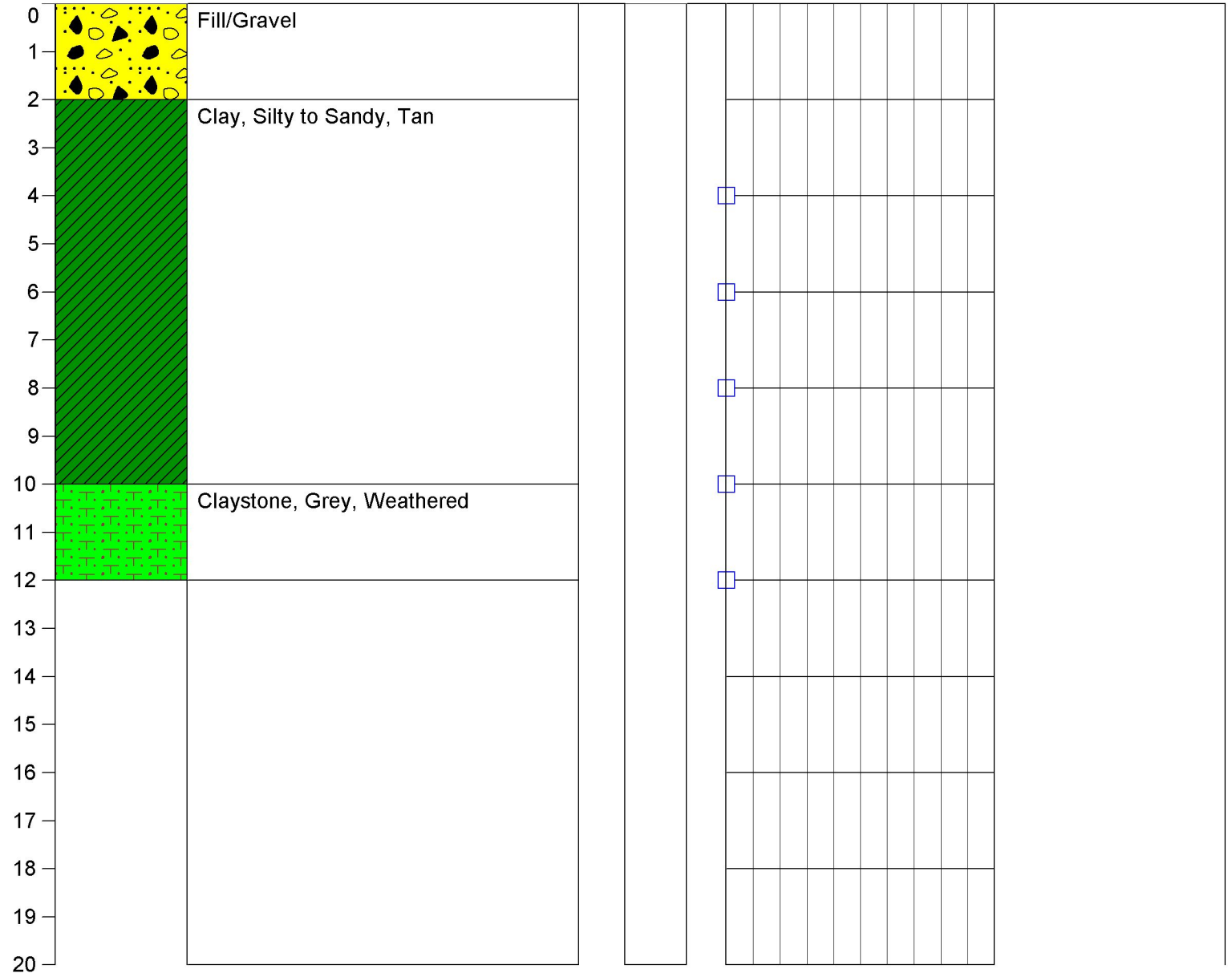
Project	Berge #2			Borehole # PB-3
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



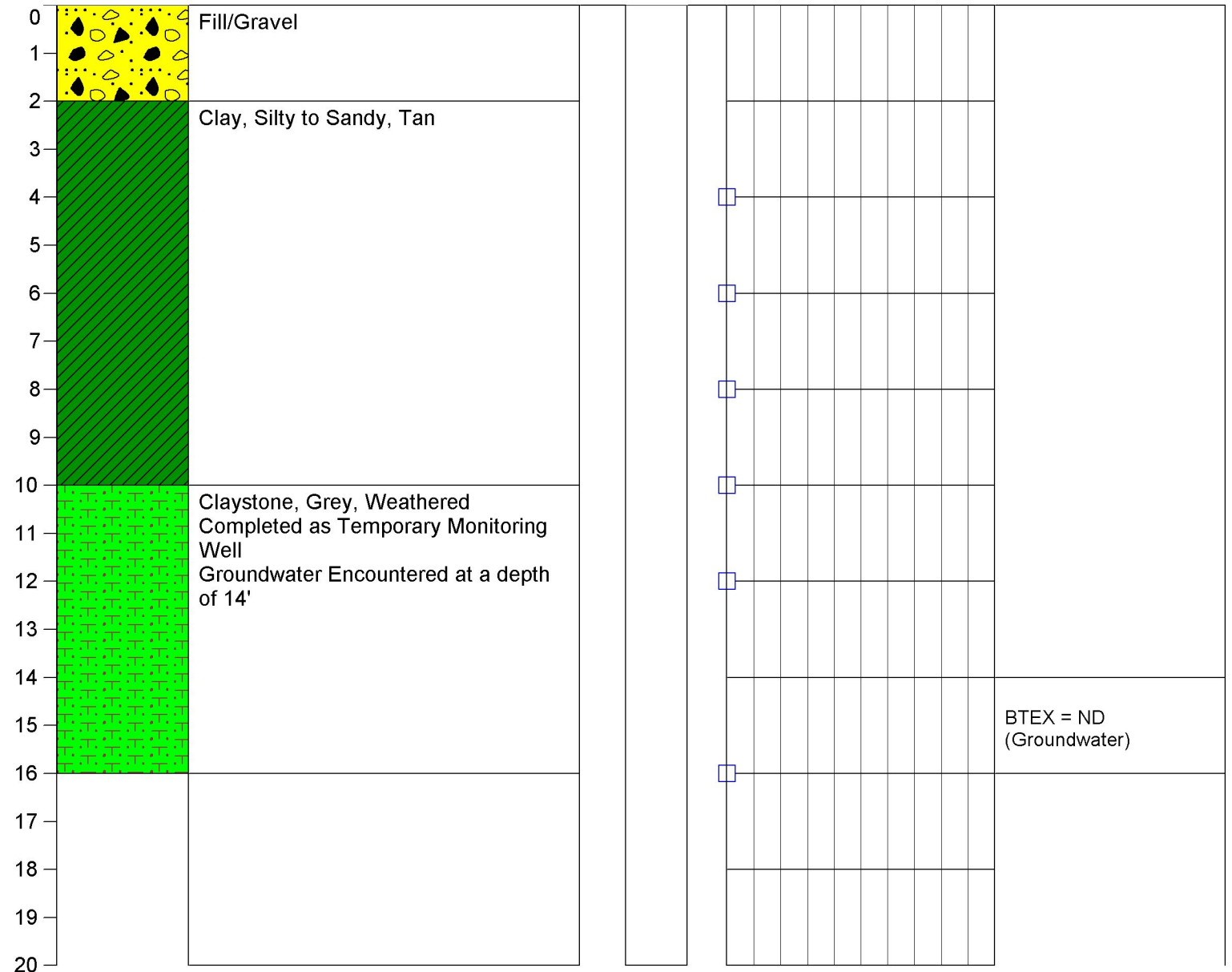
Project	Berge #2			Borehole # PB-4
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



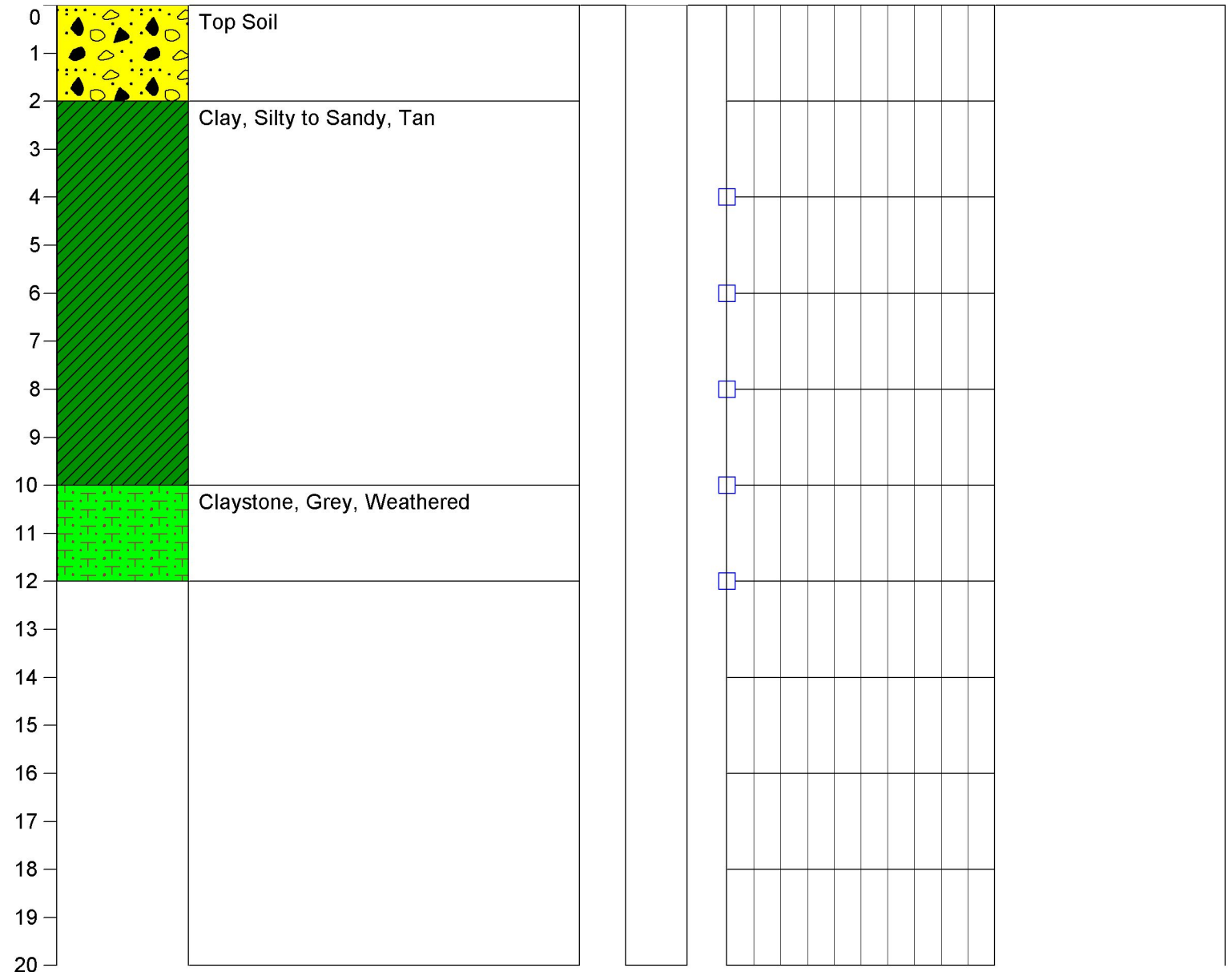
Project	Berge #2			Borehole # PB-5
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



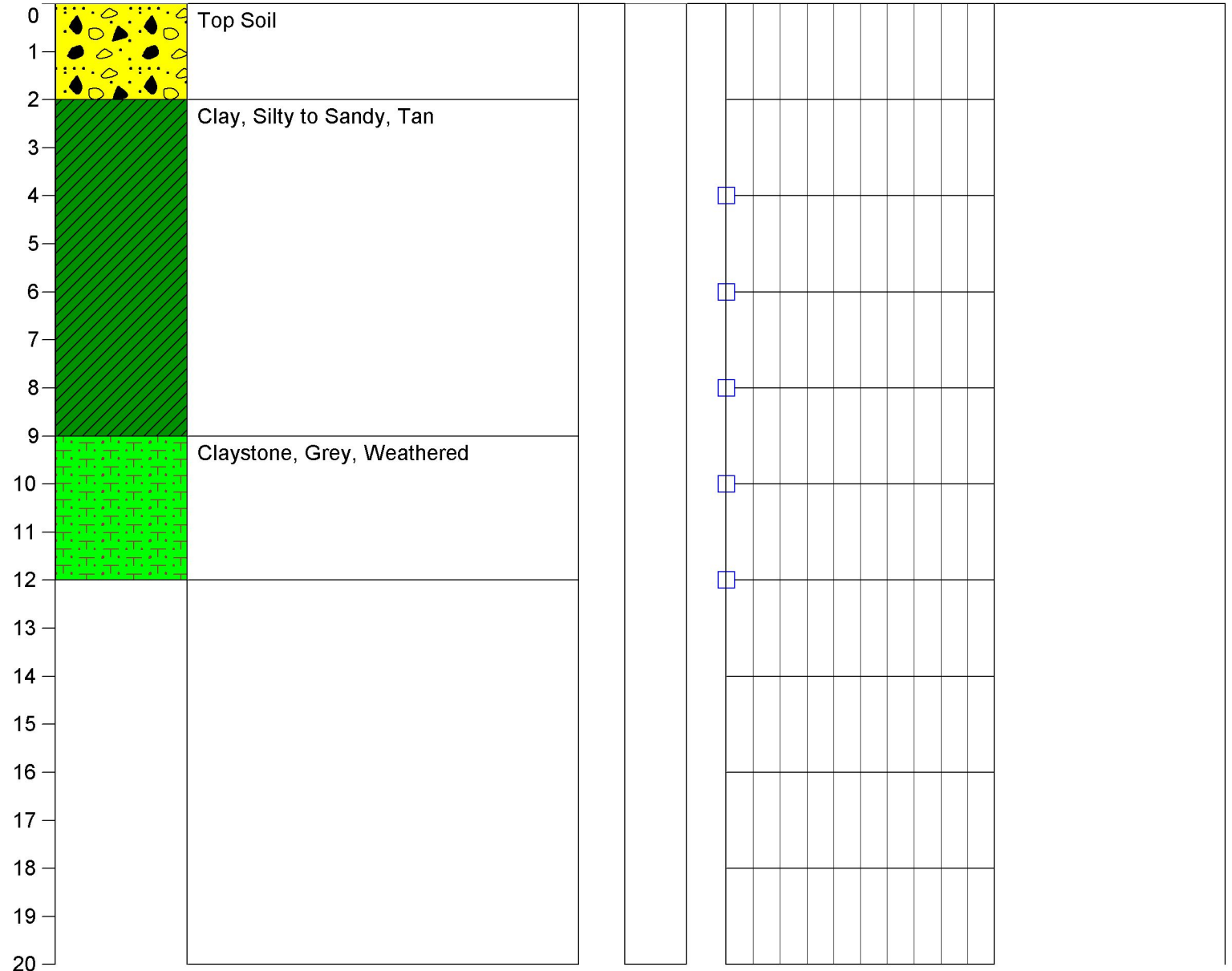
Project	Berge #2			Borehole # PB-7
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



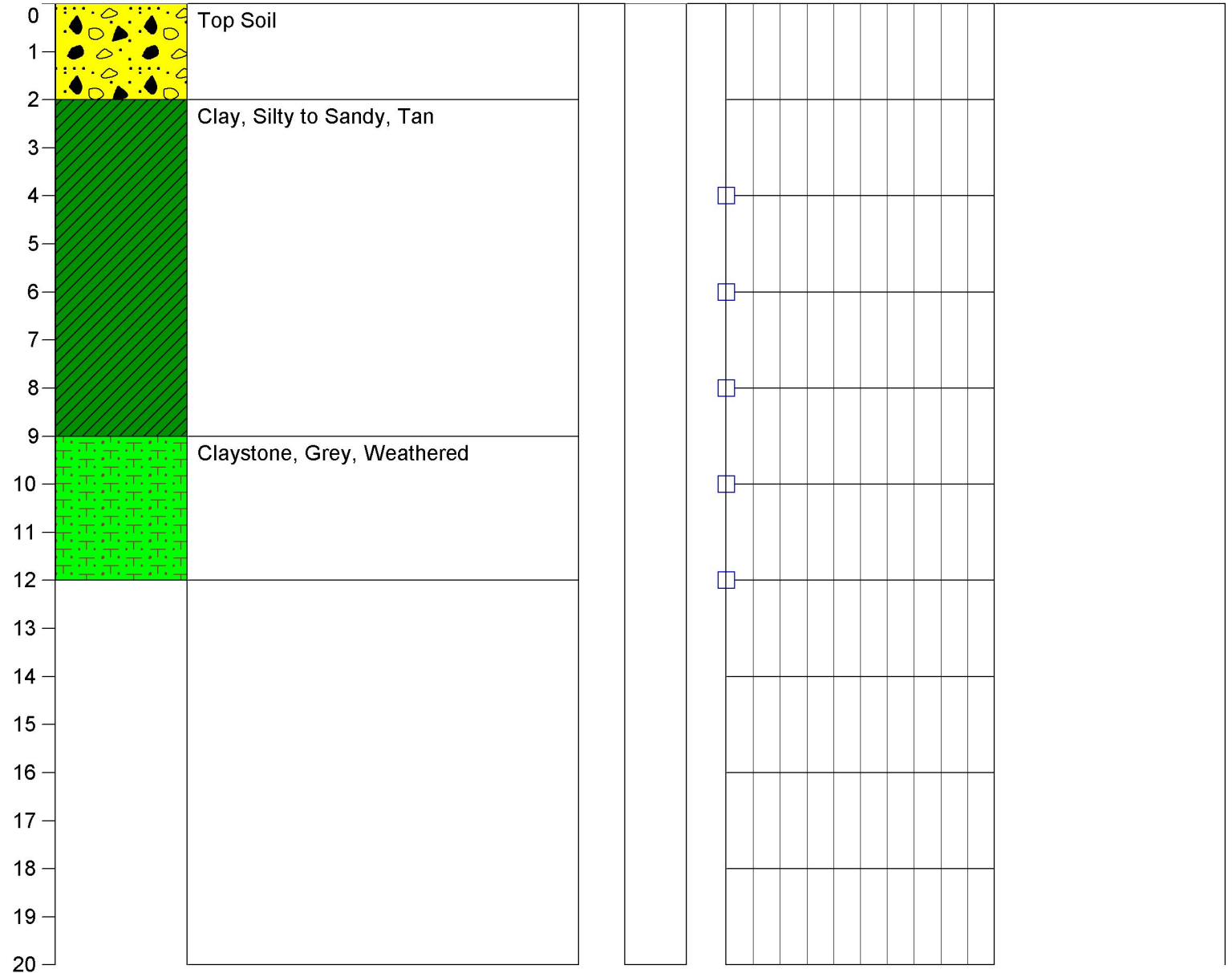
Project	Berge #2			Borehole # PB-8
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



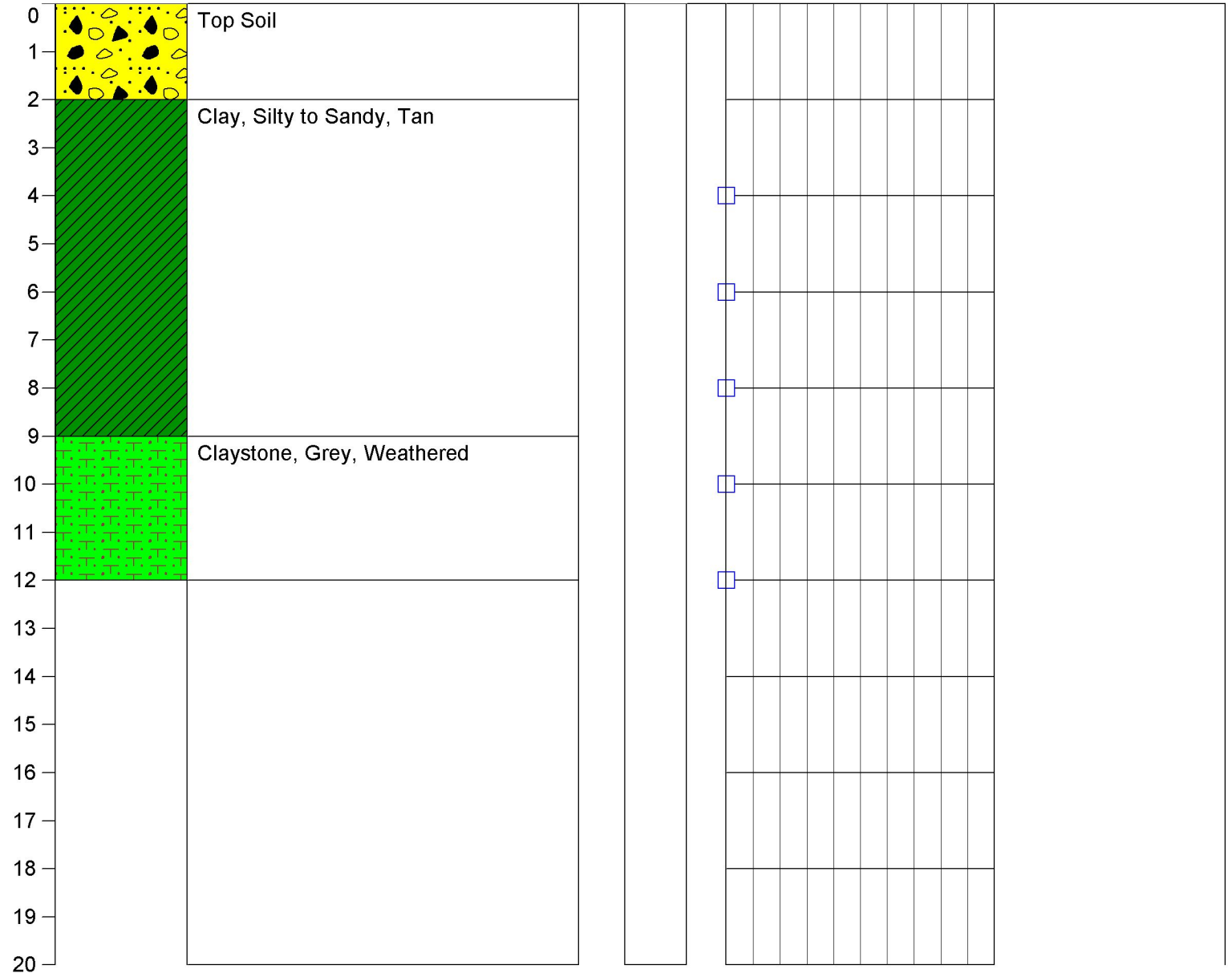
Project	Berge #2			Borehole # PB-9
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



Project	Berge #2			Borehole # PB-10
Project No	1-0025.033.00	Date	9/29/20	
Client	K.P.K.	Elevation		
Location	Ft Lupton, CO	Recorded By	Michael Hattel	

SUBSURFACE PROFILE			SAMPLE			VOC Concentrator ppm	Lab Analysis
Depth (m)	Lithology	Lithologic Description	Number	Type	Recovery		
						0 500	
						0 50 100	



APPENDIX C

ANALYTICAL REPORT

TABLE 1

SUMMARY OF LABORATORY RESULTS FOR SOIL SAMPLE COLLECTED FROM BERGE #2, WELD COUNTY, COLORADO

Sample	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	TEPH (mg/kg)
PB-1-4	9/29/20	0.580	1.300	0.310	8.500	130	870
PB-2-8	9/29/20	0.056	<0.005	0.210	0.084	35	86
Standard	NA	5	1000	700	1400	500	500

Standard = Colorado Oil and Gas Conservation Commission (COGCC) and/or State of Colorado

mg/kg = Milligrams per kilogram

GRO = Gasoline Range Organics

Benzene, toluene, ethylbenzene, total xylenes and GRO by EPA Method 8260

TEPH = Total Extractable Petroleum Hydrocarbons by EPA Method 8015

TABLE 2

SUMMARY OF LABORATORY RESULTS FOR GROUNDWATER SAMPLE COLLECTED FROM BERGE #2, WELD COUNTY, COLORADO

Sample	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)
PB-5-2	9/29/20	<1	<1	<1	<2
Standard	NA	5	1000	700	1400

Standard = Colorado Oil and Gas Conservation Commission (COGCC) and/or State of Colorado

ug/L = Micrograms per liter

Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 12, 2020


Max Knop
K.P. Kauffman
1675 Broadway
Denver, CO 80202

RE: Berge

Work Order #2010037

Enclosed are the results of analyses for samples received by Summit Scientific on 10/05/20 08:50. 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



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PB-1-4	2010037-01	Soil	09/29/20 07:50	10/05/20 08:50
PB-2-8	2010037-02	Soil	09/29/20 08:00	10/05/20 08:50
PB-5-2	2010037-03	Water	09/29/20 09:25	10/05/20 08:50

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.

2010037

Summit Scientific



4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: K.P. Kauffman Company, Inc. Project Manager: Max Knop
 Address: 1675 Broadway, Suite 2800 E-Mail: MKnop@kpk.com
 City/State/Zip: Denver, CO 80202-4628
 Phone: 303-825-4822 Project Name: *Berge*
 Sampler Name: Mike Hattel (mhattel@msn.com) Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	VOCs	TPH	TEPH					
1	<i>PB-1-4</i>	<i>9/29/20</i>	<i>750</i>	<i>1</i>										<i>X</i>	<i>X</i>	<i>X</i>					
2	<i>PB-2-0</i>	<i>9/29/20</i>	<i>800</i>	<i>1</i>										<i>X</i>	<i>X</i>	<i>X</i>					
3	<i>PB-5-2</i>	<i>9/29/20</i>	<i>925</i>	<i>4</i>	<i>X</i>									<i>X</i>							
4																					
5																					
6																					
7																					
8																					
9																					
10																					
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time (Check)				Notes:									
<i>MHattel</i>		<i>10/5/20 850</i>		<i>Mike Knop</i>		<i>10/5/20 8:50</i>		Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>				<i>X</i>									
Relinquished by:		Date/Time:		Received by:		Date/Time:		24 hours <input type="checkbox"/> Standard <input type="checkbox"/>													
								48 hours <input type="checkbox"/>													
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:													
								Temperature Upon Receipt: <i>4.2</i>													
								Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No													

Sample Receipt Checklist

S2 Work Order 2010037

Client: KP Kauffman Client Project ID: Berge.

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>4.2</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"/>			
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"/>			<u>HCl</u>
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.

mc
Custodian Printed Name or Initials

mc
Signature of Custodian

10/5/20
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

PB-1-4
2010037-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/20 07:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.58	0.0020	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	
Toluene	1.3	0.50	"	100	"	"	"	"	
Ethylbenzene	0.31	0.0050	"	1	"	"	"	"	
Xylenes (total)	8.5	1.0	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	130	0.50	"	1	"	"	"	"	

Date Sampled: **09/29/20 07:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		245 %	23-173		"	"	"	"	S-02
Surrogate: Toluene-d8		82.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		476 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/20 07:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	870	50	mg/kg	1	BDJ0025	10/06/20	10/08/20	EPA 8015M	

Date Sampled: **09/29/20 07:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.8 %	30-150		"	"	"	"	

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

PB-2-8
2010037-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/20 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0056	0.0020	mg/kg	1	BDJ0026	10/06/20	10/07/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.021	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.084	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	35	0.50	"	"	"	"	"	"	

Date Sampled: **09/29/20 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		161 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/29/20 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	86	50	mg/kg	1	BDJ0025	10/06/20	10/08/20	EPA 8015M	

Date Sampled: **09/29/20 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.4 %	30-150		"	"	"	"	

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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Berge
 Project Number: [none]
 Project Manager: Max Knop

Reported:
 10/12/20 17:32

PB-5-2
2010037-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/29/20 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDJ0059	10/07/20	10/09/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/29/20 09:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %		21-167		"	"	"	"	

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0370</i>		<i>"</i>	<i>0.0400</i>		<i>92.4</i>	<i>21-167</i>				

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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0305</i>		<i>"</i>	<i>0.0400</i>		<i>76.4</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.4</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0371</i>		<i>"</i>	<i>0.0400</i>		<i>92.7</i>	<i>21-167</i>				

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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0304</i>		<i>"</i>	<i>0.0400</i>		<i>76.0</i>	<i>23-173</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.6</i>	<i>20-170</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0369</i>		<i>"</i>	<i>0.0400</i>		<i>92.2</i>	<i>21-167</i>				

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

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 BDJ0059 - EPA 5030 Water MS

Blank (BDJ0059-BLK1)

Prepared: 10/07/20 Analyzed: 10/08/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.3	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.1	21-167			

LCS (BDJ0059-BS1)

Prepared: 10/07/20 Analyzed: 10/08/20

Benzene	23.0	1.0	ug/l	33.3		68.9	51-132			
Toluene	28.4	1.0	"	33.3		85.3	51-138			
Ethylbenzene	36.3	1.0	"	33.3		109	58-146			
m,p-Xylene	76.6	2.0	"	66.7		115	57-144			
o-Xylene	37.8	1.0	"	33.3		113	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		99.2	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.6	21-167			

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

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 BDJ0059 - EPA 5030 Water MS

Matrix Spike (BDJ0059-MS1)

Source: 2010037-03

Prepared: 10/07/20 Analyzed: 10/09/20

Benzene	23.7	1.0	ug/l	33.3	ND	71.2	34-141			
Toluene	30.2	1.0	"	33.3	ND	90.7	27-151			
Ethylbenzene	38.5	1.0	"	33.3	ND	116	29-160			
m,p-Xylene	78.9	2.0	"	66.7	ND	118	20-166			
o-Xylene	40.2	1.0	"	33.3	ND	120	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.9	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	21-167			

Matrix Spike Dup (BDJ0059-MSD1)

Source: 2010037-03

Prepared: 10/07/20 Analyzed: 10/09/20

Benzene	22.4	1.0	ug/l	33.3	ND	67.2	34-141	5.72	30	
Toluene	27.9	1.0	"	33.3	ND	83.8	27-151	7.88	30	
Ethylbenzene	37.4	1.0	"	33.3	ND	112	29-160	2.90	30	
m,p-Xylene	79.2	2.0	"	66.7	ND	119	20-166	0.418	30	
o-Xylene	39.2	1.0	"	33.3	ND	118	33-159	2.47	30	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.7	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.7	21-167			

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

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 BDJ0025 - EPA 3550A

Blank (BDJ0025-BLK1)

Prepared: 10/06/20 Analyzed: 10/08/20

C10-C28 (DRO) ND 50 mg/kg

LCS (BDJ0025-BS1)

Prepared: 10/06/20 Analyzed: 10/08/20

C10-C28 (DRO) 560 50 mg/kg 500 112 70-130

Matrix Spike (BDJ0025-MS1)

Source: 2010004-01

Prepared: 10/06/20 Analyzed: 10/08/20

C10-C28 (DRO) 1270 50 mg/kg 500 463 161 70-130 QM-07

Matrix Spike Dup (BDJ0025-MSD1)

Source: 2010004-01

Prepared: 10/06/20 Analyzed: 10/08/20

C10-C28 (DRO) 786 50 mg/kg 500 463 64.5 70-130 46.9 20 QM-07

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.





K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge
Project Number: [none]
Project Manager: Max Knop

Reported:
10/12/20 17:32

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.
- 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

**Appendix E: September 8, 2020 Surface Water & Groundwater
Investigation Report
(APEX Consulting)**

September 8, 2020

Mr. Max Knop
K.P. Kauffman Company, Inc.
World Trade Center
1675 Broadway, Suite 2800
Denver, CO 80202-4825

Re: Surface and Groundwater Investigation, Robert G Berge #2 Spill, Fort Lupton, Weld County, CO

Dear Mr. Knop:

Apex Consulting Services, Inc. (APEX) is pleased to submit the results of our surface and groundwater investigation for the Robert G Berge #2 Spill west of Fort Lupton, Weld County, CO (SPILL). On June 15, 2020, a leak from a flowline was discovered. The leak was repaired and soil in the vicinity of the leak was excavated and disposed.

Surface Water (Ditch) and Groundwater Sampling

On August 27, 2020, APEX collected a groundwater sample from a private water well located approximately 850' northwest of the SPILL (DWR Permit 230133). The well is 770 feet deep and is located at 10506 Highway 52 in Fort Lupton, Colorado. Field parameters (pH, specific conductance, and temperature) were recorded during sampling. The sample was collected from an outdoor spigot when pH, specific conductance, and temperature parameters were stable. The sample location is illustrated on Figure 1.

APEX collected surface water samples from the Brantner irrigation ditch on August 27, 2020. Samples were collected approximately 300 feet upstream (Berge 1 – Ditch) of the SPILL, at the SPILL (Berge 2 – Ditch) and approximately 300 feet downstream (Berge 3 – Ditch) of the SPILL. Field parameters (pH, specific conductance, and temperature) were recorded during sampling. The sample location is illustrated on Figure 1.

LABORATORY ANALYSES AND RESULTS

The samples were handled with clean, new, nitrile gloves and placed in laboratory supplied vials and bottles. The samples (vials and bottles) were stored on ice in a cooler and delivered to Summit Scientific (SUMMITT) of Golden, Colorado under chain-of-custody documentation. The samples were analyzed for BTEX by EPA Method 8260B, chloride and sulfate by EPA Method 300 and total dissolved solids (TDS) by EPA Method SM 540C. The laboratory reports provided by SUMMIT are included in Attachment A. The analytical results are also summarized on Table 1.

DISCUSSIONS AND CONCLUSIONS

The analytical results indicate that BTEX compounds were not detected in any of the samples submitted for analysis. Also, the chloride, sulfate and TDS concentrations detected in the samples do not exceed

Page 2

background concentrations. Based on the analytical results, it does not appear that SPILL has impacted surface (ditch) or groundwater in the area. Consequently, additional surface or groundwater sampling and analysis is not necessary.

If you have any questions or comments, please call.

Sincerely,

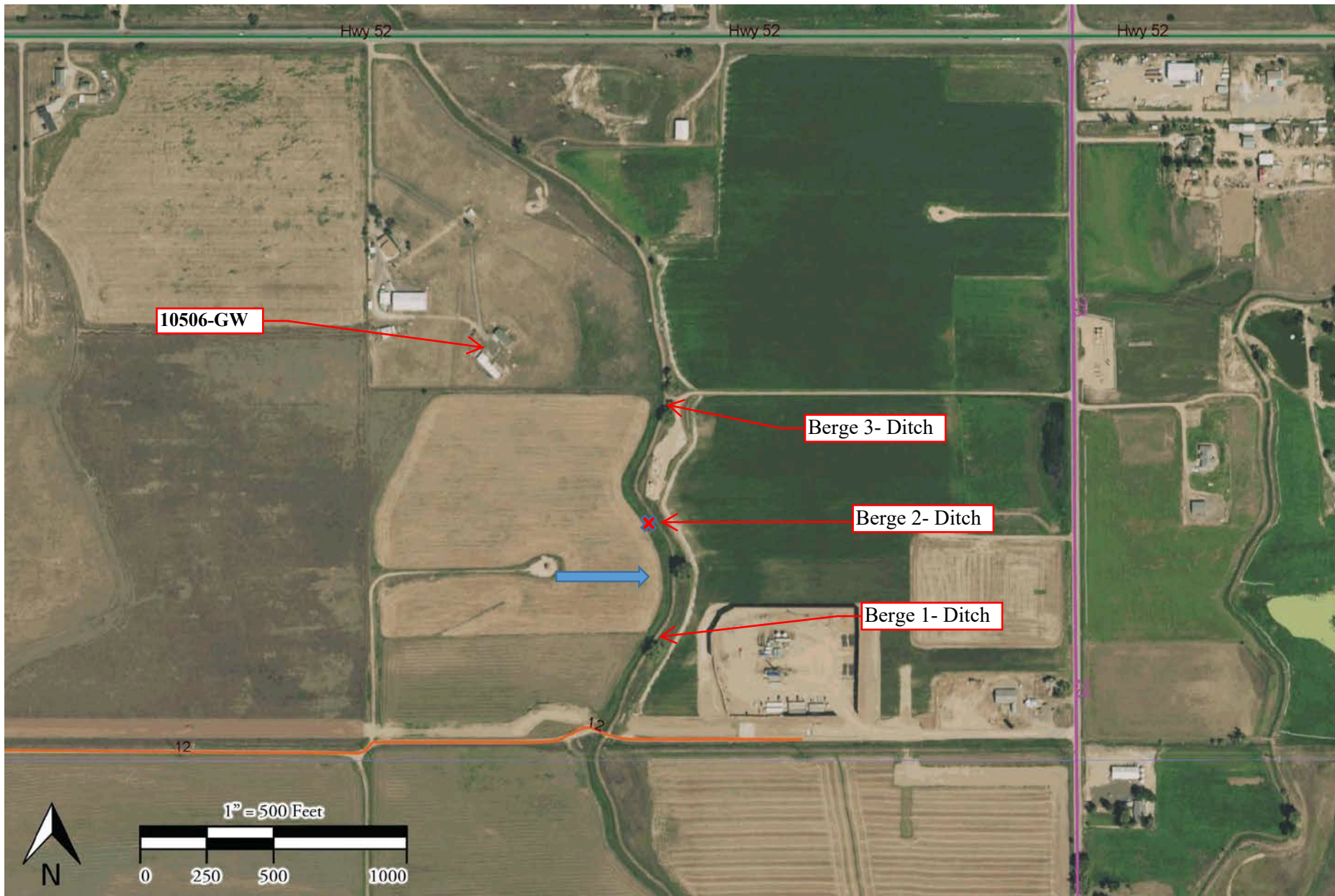
APEX CONSULTING SERVICES, INC.

A handwritten signature in blue ink that reads "Michael Hattel".


Michael D. Hattel, P.G., P.E.S.
Principal


MDH:mh


KPK.Berge#2.FtLupton.Water.Rpt.2020



Legend

 Direction of Surface Flow

 Release Location
Lat:40.07498 Long:-104.85437

Berge 1- Ditch  **Berge 1- Ditch**

Date:	June 2020
Designed By:	K.P. Kauffman Co.
Drawn By:	MWK



K.P. Kauffman Company, Inc.
1675 Broadway, Suite 2800
Denver CO, 80202

K.P. Kauffman Company, Inc.
Robert G. Berge #2Release
SWSE, Section 2, Township 1 North, Range 67 West
Weld County, Colorado

Figure #1
Site Map

TABLE 1

SUMMARY OF LABORATORY RESULTS FOR SURFACE AND GROUNDWATER SAMPLES COLLECTED FROM BERGE #2, WELD COUNTY, COLORADO

Sample	Date	pH	Specific Conductance (mS)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Chloride (mg/L)	Sulfate* (mg/L)	TDS (mg/L)
Berge 1- Ditch	8/27/20	7.95	0.968	<1	<1	<1	<2	132.0	192.0	528
Berge 2- Ditch	8/27/20	7.93	0.970	<1	<1	<1	<2	126.0	182.0	505
Berge 3 - Ditch	8/27/20	7.93	0.966	<1	<1	<1	<2	84.5	115.0	505
10506-GW	8/27/20	8.77	0.957	210	<1	140	350	24.3	32.4	446
Standard	NA	NA	NA	5	1000	700	1400	*165	*240	*660

Standard = Colorado Oil and Gas Conservation Commission (COGCC) and/or State of Colorado

mS = Microsiemens at 25 degrees Celcius

ug/L = Micrograms per liter

mg/L = Milligrams per liter

* = 1.25 x background for surface water samples

Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260

Chloride by EPA Method 300

Sulfate by EPA Method 300

TDS by EPA Method SM 540C

NA = Not Applicable

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 03, 2020

Max Knop

K.P. Kauffman

1675 Broadway


Denver, CO 80202

RE: Berge/Fac 4

Work Order #2008267

Enclosed are the results of analyses for samples received by Summit Scientific on 08/27/20 17:15. 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



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Berge 1-Ditch	2008267-01	Water	08/27/20 08:20	08/27/20 17:15
Berge 2-Ditch	2008267-02	Water	08/27/20 08:35	08/27/20 17:15
Berge 3-Ditch	2008267-03	Water	08/27/20 08:45	08/27/20 17:15
10506-GW	2008267-04	Water	08/27/20 09:20	08/27/20 17:15

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.

Summit Scientific

S₂

2008267

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: K.P. Kauffman Company, Inc.

Project Manager: Max Knop

Address: 1675 Broadway, Suite 2800

E-Mail: MKnop@kpk.com

City/State/Zip: Denver, CO 80202-4628

Phone: 303-825-4822

Project Name: Berge Fac 4

Sampler Name: Mike Hattel (mhattel@msn.com)

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	TDs	Chlorides	Sulfates	
1	Berge 1 - Ditch	8/27/20	8:20	4					X				X	X	X	X	
2	Berge 2 - Ditch	↓	8:35	4					X				X	X	X	X	
3	Berge 3 - Ditch	↓	8:45	4					X				X	X	X	X	
4	10506 - GWS	↓	9:20	4					X				X	X	X	X	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: <u>Mike Hattel</u>	Date/Time: <u>8/27/20 17:05</u>	Received by: <u>[Signature]</u>	Date/Time: <u>08-27-20 17:05</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>1.7</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes: Report to M. Knop & M. Hattel
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2008267

Client: KP KAUFFMAN/APEX CONSULTING Project ID: BERGE / FAC 4

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

Matrix (check all that apply): _____ Air _____ Soil/Solid Water _____ Other: _____
(Describe)

Temp (°C)	1.7
-----------	-----

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"/>			
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.

Mary P.
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

08-27-20
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

Berge 1-Ditch
2008267-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/27/20 08:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008307	08/28/20	08/28/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/27/20 08:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		73.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		115 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/27/20 08:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sulfate	192	30.0		mg/L	100	2009019	09/02/20	09/02/20	EPA 300.0	
Chloride	132	6.00		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/27/20 08:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	528	10.0		mg/L	1	2008298	08/28/20	08/28/20	SM2540C	

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

Berge 2-Ditch
2008267-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/27/20 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008307	08/28/20	08/28/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/27/20 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		88.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/27/20 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	126	6.00		mg/L	100	2009019	09/02/20	09/02/20	EPA 300.0	
Sulfate	182	30.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/27/20 08:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	505	10.0		mg/L	1	2008298	08/28/20	08/28/20	SM2540C	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

Berge 3-Ditch
2008267-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/27/20 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008307	08/28/20	08/28/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/27/20 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		94.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/27/20 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sulfate	115	30.0		mg/L	100	2009019	09/02/20	09/02/20	EPA 300.0	
Chloride	84.5	6.00		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/27/20 08:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	505	10.0		mg/L	1	2008298	08/28/20	08/28/20	SM2540C	

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

10506-GW
2008267-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/27/20 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008307	08/28/20	08/28/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/27/20 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		82.0 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/27/20 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	24.3	6.00		mg/L	100	2009019	09/02/20	09/02/20	EPA 300.0	
Sulfate	32.4	30.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/27/20 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	446	10.0		mg/L	1	2008298	08/28/20	08/28/20	SM2540C	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

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 2008307 - EPA 5030 Water MS

Blank (2008307-BLK1)

Prepared & Analyzed: 08/28/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.0		"	13.3		82.4		23-173		
Surrogate: Toluene-d8	14.4		"	13.3		108		20-170		
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.5		21-167		

LCS (2008307-BS1)

Prepared & Analyzed: 08/28/20

Benzene	29.3	1.0	ug/l	33.3		88.0		51-132		
Toluene	31.3	1.0	"	33.3		93.9		51-138		
Ethylbenzene	29.4	1.0	"	33.3		88.1		58-146		
m,p-Xylene	55.2	2.0	"	66.7		82.8		57-144		
o-Xylene	27.4	1.0	"	33.3		82.3		53-146		
Surrogate: 1,2-Dichloroethane-d4	10.4		"	13.3		77.8		23-173		
Surrogate: Toluene-d8	14.0		"	13.3		105		20-170		
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9		21-167		

Matrix Spike (2008307-MS1)

Source: 2008269-25

Prepared & Analyzed: 08/28/20

Benzene	27.4	1.0	ug/l	33.3	ND	82.3		34-141		
Toluene	31.5	1.0	"	33.3	ND	94.4		27-151		
Ethylbenzene	29.9	1.0	"	33.3	ND	89.6		29-160		
m,p-Xylene	55.5	2.0	"	66.7	ND	83.3		20-166		
o-Xylene	27.2	1.0	"	33.3	ND	81.7		33-159		
Surrogate: 1,2-Dichloroethane-d4	8.82		"	13.3		66.2		23-173		
Surrogate: Toluene-d8	14.0		"	13.3		105		20-170		
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.0		21-167		

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

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 2008307 - EPA 5030 Water MS

Matrix Spike Dup (2008307-MSD1)

Source: 2008269-25

Prepared & Analyzed: 08/28/20

Benzene	29.7	1.0	ug/l	33.3	ND	89.1	34-141	7.95	30	
Toluene	33.8	1.0	"	33.3	ND	102	27-151	7.26	30	
Ethylbenzene	28.4	1.0	"	33.3	ND	85.2	29-160	5.08	30	
m,p-Xylene	52.9	2.0	"	66.7	ND	79.4	20-166	4.81	30	
o-Xylene	26.4	1.0	"	33.3	ND	79.1	33-159	3.21	30	
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.0	23-173			
Surrogate: Toluene-d8	15.0		"	13.3		112	20-170			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.0	21-167			

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch 2009019 - General Preparation

Blank (2009019-BLK1)

Prepared & Analyzed: 09/02/20

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (2009019-BS1)

Prepared & Analyzed: 09/02/20

Chloride	3.23	0.0600	mg/L	3.00	108	90-110		
Sulfate	15.9	0.300	"	15.0	106	90-110		

Duplicate (2009019-DUP1)

Source: 2009010-01

Prepared & Analyzed: 09/02/20

Chloride	156	6.00	mg/L		146		6.03	20
Sulfate	57.1	30.0	"		52.9		7.64	20

Matrix Spike (2009019-MS1)

Source: 2009010-01

Prepared & Analyzed: 09/02/20

Sulfate	1450	30.0	mg/L	1500	52.9	93.2	80-120	
Chloride	458	6.00	"	300	146	104	80-120	

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.





K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
 Project Manager: Max Knop

Reported:
 09/03/20 16:32

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch 2008298 - General Preparation

Blank (2008298-BLK1)

Prepared & Analyzed: 08/28/20

Total Dissolved Solids ND 10.0 mg/L

Duplicate (2008298-DUP1)

Source: 2008267-01

Prepared & Analyzed: 08/28/20

Total Dissolved Solids 531 10.0 mg/L 528 0.510 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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Berge/Fac 4

Project Number: [none]
Project Manager: Max Knop

Reported:
09/03/20 16:32

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

Appendix F: Comparison of Results with Table 915-1 Standards

Comparison of COGCC Table 915-1								
Concentration Levels								
ROBERT G BERGE #2 Flowline Release - REM Project No. 15743			Sampling Results					
COGCC Table 915-1 Parameters	Date Sampled:	3/31/2021	1/27/2021	1/27/2021	1/27/2021	1/27/2021	1/27/2021	2/22/2021
	Sample ID:	GW (Water)	W (1)	N (2)	E (3)	M (4)	S (5)	Robert Berge #1 (BG)
Organic Compounds in Soil								
Contaminant of Conern	Concentrations							
TPH (total volatile and extractable petroleum hydrocarbons) - GRO (Gasoline Range Organics)	500 mg/kg	ND	ND	ND	ND	ND	ND	ND
TPH (total volatile and extractable petroleum hydrocarbons) - DRO (Diesel Range Organics)	500 mg/kg	ND	ND	ND	ND	ND	ND	ND
TPH (total volatile and extractable petroleum hydrocarbons) - ORO (Oil Range Organics)	500 mg/kg	ND	ND	ND	ND	ND	ND	ND
Benzene	1.2 mg/kg	ND	ND	ND	ND	ND	ND	ND
Toluene	490 mg/kg	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.8 mg/kg	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	58 mg/kg	ND	ND	ND	ND	ND	ND	ND
1,2,4-trimethylbenzene	30 mg/kg	ND	ND	ND	ND	ND	ND	ND
1,3,5-trimethylbenzene	27 mg/kg	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	360 mg/kg	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,800 mg/kg	ND	ND	ND	ND	ND	ND	ND
Benzo(A)anthracene	1.1 mg/kg	ND	ND	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	1.1 mg/kg	ND	ND	ND	ND	ND	ND	ND
Benzo(K)fluoranthene	11 mg/kg	ND	ND	ND	ND	ND	ND	ND
Benzo(A)pyrene	0.11 mg/kg	ND	ND	ND	ND	ND	ND	ND
Chrysene	110 mg/kg	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)andthracene	0.11 mg/kg	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	240 mg/kg	ND	ND	ND	ND	ND	ND	0.00506
Fluorene	240 mg/kg	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3,C,D)pyrene	1.1 mg/kg	ND	ND	ND	ND	ND	ND	ND
Napthalene	2 mg/kg	ND	ND	ND	ND	ND	ND	ND
Pyrene	180 mg/kg	ND	ND	ND	ND	ND	ND	0.00511
Organic Compounds in Groundwater								
Contaminant of Conern	Concentrations							
Benzene	5 µg/l	ND						
Toluene	560 to 1,000 µg/l	ND						
Ethylbenzene	700 µg/l	ND						
Xylenes (total)	1,400 to 10,000 µg/l	ND						
naphthalene	140 µg/l	ND						
1,2,4-trimethylbenzene	67 µg/l	ND						
1,3,5-trimethylbenzene	67 µg/l	ND						
Soil Suitability for Reclamation								
Electrical Conductivity (EC)	< 4 mmhos/cm		1.53	1.26	0.94	1.61	1.4	0.002
Sodium Adsorption Ration (SAR)	< 12		4.56	3.28	2.65	2.4	6.41	2.81
pH	6-8.3		8.10	7.10	7.90	7.90	8.10	8.53
boron (hot water soluble soil extract)	2 mg/l							0.31
Groundwater Inorganic Parameters								
Total Dissolved Solids (TDS)	< 1.25 x local background	980						
Chlorides	250mg/l or <1.25 X local background	299						
Sulfates	250mg/l or <1.25 X local background	365						
Metals in Soils								
Contaminant of Conern	Concentrations							
Arsenic	0.68 mg/kg		5.14	5.43	6.72	3.05	7.05	4.39
Barium (LDNR True Total Barium)	15,000 mg/kg		156	92.9	99.9	51.7	687	118
Cadmium	71 mg/kg	ND	ND	ND	ND	ND	ND	0.328
Chromium (VI)	0.3 mg/kg							
Copper	3,100 mg/kg		Jun-35	13.2	13.7	6.89	7.1	16.3
Lead (inorganic)	400 mg/kg		6.6	11.3	11	10.7	6.8	15
Nickel (soluble salts)	1,500 mg/kg		9.31	15.1	24.1	7.44	9.16	12.9
Selenium	390 mg/kg	ND		0.57	ND	ND	ND	2.38
Silver	390 mg/kg		0.0462	0.0747	0.0508	0.035	0.0376	0.131
Zinc	23,000 mg/kg		27.2	54.8	48.6	30.7	24.3	54.5
Liquid Hydrocarbons in Soils and Ground Water								
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits							

*ND = NON DETECT

Appendix G: Laboratory Analysis

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 12, 2021

Max Knop

K.P. Kauffman

1675 Broadway

Denver, CO 80202

RE: Robert Berge Groundwater Sample

Work Order #2104039

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/21 09:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge Groundwater Sample

Project Number: [none]
Project Manager: Max Knop

Reported:
04/12/21 14:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Burge #1-GW	2104039-01	Water	03/31/21 12:00	04/02/21 09:28

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.

Sample Receipt Checklist

S2 Work Order 2104039

Client: KP KAUFFMAN Client Project ID: ROBERT BERGE GROUNDWATER SAMPLE

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>3.4</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"/>			
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.

Nurip
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

4-2-21
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge Groundwater Sample

Project Number: [none]
Project Manager: Max Knop

Reported:
04/12/21 14:31

**Burge #1-GW
2104039-01 (Water)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/21 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BED0078	04/06/21	04/06/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/31/21 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/31/21 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sulfate	365	60.0		mg/L	200	BED0117	04/07/21	04/08/21	EPA 300.0	
Chloride	299	12.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/31/21 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	980	10.0		mg/L	1	BED0097	04/07/21	04/07/21	SM2540C	

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge Groundwater Sample

Project Number: [none]
Project Manager: Max Knop

Reported:
04/12/21 14:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0078 - EPA 5030 Water MS

Blank (BED0078-BLK1)

Prepared & Analyzed: 04/06/21

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.3		20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.4		21-167			

LCS (BED0078-BS1)

Prepared & Analyzed: 04/06/21

Benzene	32.8	1.0	ug/l	33.3		98.5		51-132			
Toluene	35.0	1.0	"	33.3		105		51-138			
Ethylbenzene	40.3	1.0	"	33.3		121		58-146			
m,p-Xylene	76.8	2.0	"	66.7		115		57-144			
o-Xylene	40.2	1.0	"	33.3		121		53-146			
Naphthalene	39.3	1.0	"	33.3		118		70-130			
1,2,4-Trimethylbenzene	30.1	1.0	"	33.3		90.4		70-130			
1,3,5-Trimethylbenzene	41.6	1.0	"	33.3		125		70-130			
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.1		23-173			
Surrogate: Toluene-d8	12.3		"	13.3		92.5		20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9		21-167			

Matrix Spike (BED0078-MS1)

Source: 2104040-01

Prepared & Analyzed: 04/06/21

Benzene	32.3	1.0	ug/l	33.3	ND	96.9		34-141			
Toluene	34.8	1.0	"	33.3	ND	104		27-151			
Ethylbenzene	40.8	1.0	"	33.3	ND	123		29-160			
m,p-Xylene	78.0	2.0	"	66.7	ND	117		20-166			
o-Xylene	40.3	1.0	"	33.3	ND	121		33-159			
Naphthalene	42.3	1.0	"	33.3	ND	127		70-130			
1,2,4-Trimethylbenzene	30.5	1.0	"	33.3	ND	91.6		70-130			
1,3,5-Trimethylbenzene	41.7	1.0	"	33.3	ND	125		70-130			
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.0		23-173			
Surrogate: Toluene-d8	12.2		"	13.3		91.9		20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.3		21-167			

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge Groundwater Sample

Project Number: [none]
Project Manager: Max Knop

Reported:
04/12/21 14:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0078 - EPA 5030 Water MS

Matrix Spike Dup (BED0078-MSD1)	Source: 2104040-01			Prepared & Analyzed: 04/06/21							
Benzene	30.8	1.0	ug/l	33.3	ND	92.3	34-141	4.89	30		
Toluene	35.2	1.0	"	33.3	ND	106	27-151	1.06	30		
Ethylbenzene	41.0	1.0	"	33.3	ND	123	29-160	0.367	30		
m,p-Xylene	77.6	2.0	"	66.7	ND	116	20-166	0.514	30		
o-Xylene	40.6	1.0	"	33.3	ND	122	33-159	0.593	30		
Naphthalene	33.9	1.0	"	33.3	ND	102	70-130	22.0	30		
1,2,4-Trimethylbenzene	30.4	1.0	"	33.3	ND	91.3	70-130	0.262	30		
1,3,5-Trimethylbenzene	41.6	1.0	"	33.3	ND	125	70-130	0.456	30		
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.3	23-173				
Surrogate: Toluene-d8	12.2		"	13.3		91.9	20-170				
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	21-167				

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge Groundwater Sample

Project Number: [none]
Project Manager: Max Knop

Reported:
04/12/21 14:31

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BED0117 - General Preparation

Blank (BED0117-BLK1)

Prepared: 04/07/21 Analyzed: 04/08/21

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BED0117-BS1)

Prepared: 04/07/21 Analyzed: 04/08/21

Sulfate	14.5	0.300	mg/L	15.0	97.0	90-110
Chloride	2.96	0.0600	"	3.00	98.7	90-110

Duplicate (BED0117-DUP1)

Source: 2104038-01

Prepared: 04/07/21 Analyzed: 04/08/21

Chloride	215	12.0	mg/L	212	1.40	20
Sulfate	1460	60.0	"	1470	0.491	20

Matrix Spike (BED0117-MS1)

Source: 2104038-01

Prepared: 04/07/21 Analyzed: 04/08/21

Chloride	908	12.0	mg/L	600	212	116	80-120
Sulfate	4860	60.0	"	3000	1470	113	80-120

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Robert Berge Groundwater Sample

Project Number: [none]
 Project Manager: Max Knop

Reported:
 04/12/21 14:31

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch BED0097 - General Preparation

Blank (BED0097-BLK1)

Prepared & Analyzed: 04/07/21

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BED0097-DUP1)

Source: 2104038-01

Prepared & Analyzed: 04/07/21

Total Dissolved Solids 2380 10.0 mg/L 2380 0.126 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge Groundwater Sample

Project Number: [none]
Project Manager: Max Knop

Reported:
04/12/21 14:31

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

March 08, 2021

Max Knop

K.P. Kauffman

1675 Broadway


Denver, CO 80202

RE: Background Samples

Work Order #2102371

Enclosed are the results of analyses for samples received by Summit Scientific on 02/25/21 13:33. 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, stylized 'M' and 'P'.

Muri Premer For Paul Shrewsbury
President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Robert Berge #1	2102371-01	Soil	02/22/21 10:00	02/25/21 13:33
Nessu #2	2102371-02	Soil	02/22/21 10:00	02/25/21 13:33
Nessu #16	2102371-03	Soil	02/22/21 10:00	02/25/21 13:33
Parker 44-15	2102371-04	Soil	02/22/21 10:00	02/25/21 13:33

Summit Scientific

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Sample Receipt Checklist

S2 Work Order 2102371

Client: KAUFFMAN Client Project ID: Background 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>4.8</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ? 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 ⁽¹⁾ ? 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):

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

KB
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

01/25/2021
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Robert Berge #1
2102371-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEC0033	03/01/21	03/01/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		109 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BEB0422	02/27/21	03/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		102 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Robert Berge #1
2102371-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0123	03/05/21	03/07/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00506	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00511	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.39	0.226	mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B	
Barium	118	0.452	"	"	"	"	"	"	
Boron	0.309	0.0100	mg/L	"	BEC0004	03/01/21	03/02/21	"	
Cadmium	0.328	0.226	mg/kg dry	"	BEC0021	03/01/21	03/02/21	"	
Copper	16.3	0.452	"	"	"	"	"	"	
Lead	15.0	0.226	"	"	"	"	"	"	
Nickel	12.9	0.452	"	"	"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Robert Berge #1
2102371-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Selenium	2.38	0.294	mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B	
Silver	0.131	0.0226	"	"	"	"	"	"	
Zinc	54.5	0.452	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0077	03/03/21	03/04/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	101	0.0564	mg/L dry	1	BEC0050	03/02/21	03/03/21	EPA 6020B	
Magnesium	25.7	0.0564	"	"	"	"	"	"	
Sodium	122	0.0564	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.81	0.100	units	1	BEC0124	03/05/21	03/05/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BEC0096	03/04/21	03/04/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

Robert Berge #1
2102371-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.992	0.0100		mmhos/cm	1	BEC0082	03/03/21	03/03/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.53			pH Units	1	BEC0083	03/03/21	03/03/21	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Nessu #2
2102371-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0033	03/01/21	03/01/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	830	50	mg/kg	1	BEB0422	02/27/21	03/03/21	EPA 8015M	
C28-C36 (ORO)	240	50	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Nessu #2
2102371-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Acenaphthene	ND	0.00500		mg/kg	1	BEC0123	03/05/21	03/07/21	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	0.0106	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	0.0103	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0210	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	0.0312	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	0.0220	0.00500		"	"	"	"	"	"	
Fluorene	0.0227	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	0.0428	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		46.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.05	0.218		mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B	
Barium	108	0.436		"	"	"	"	"	"	
Cadmium	0.781	0.218		"	"	"	"	"	"	
Boron	0.305	0.0100		mg/L	"	BEC0004	03/01/21	03/02/21	"	
Copper	33.7	0.436		mg/kg dry	"	BEC0021	03/01/21	03/02/21	"	
Lead	36.9	0.218		"	"	"	"	"	"	
Nickel	8.00	0.436		"	"	"	"	"	"	
Selenium	0.856	0.283		"	"	"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Nessu #2
2102371-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Silver	0.580	0.0218	mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B
Zinc	102	0.436	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0077	03/03/21	03/04/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	218	0.0545	mg/L dry	1	BEC0050	03/02/21	03/03/21	EPA 6020B	
Magnesium	63.9	0.0545	"	"	"	"	"	"	
Sodium	352	0.0545	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.39	0.100	units	1	BEC0124	03/05/21	03/05/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.8		%	1	BEC0096	03/04/21	03/04/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

Nessu #2
2102371-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.54	0.0100		mmhos/cm	1	BEC0082	03/03/21	03/03/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.44			pH Units	1	BEC0083	03/03/21	03/03/21	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Nessu #16
2102371-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0033	03/01/21	03/02/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

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		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0422	02/27/21	03/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Nessu #16
2102371-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0123	03/05/21	03/07/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00703	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0105	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0192	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00737	0.00500	"	"	"	"	"	"	
Chrysene	0.0107	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00890	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0151	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		42.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.49	0.223	mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B	
Barium	82.2	0.446	"	"	"	"	"	"	
Boron	0.263	0.0100	mg/L	"	BEC0004	03/01/21	03/02/21	"	
Cadmium	0.643	0.223	mg/kg dry	"	BEC0021	03/01/21	03/02/21	"	
Copper	21.2	0.446	"	"	"	"	"	"	
Lead	31.6	0.223	"	"	"	"	"	"	
Nickel	7.58	0.446	"	"	"	"	"	"	
Selenium	ND	0.290	"	"	"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Nessu #16
2102371-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Silver	0.337	0.0223	mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B	
Zinc	73.6	0.446	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0077	03/03/21	03/04/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	82.1	0.0557	mg/L dry	1	BEC0050	03/02/21	03/03/21	EPA 6020B	
Magnesium	24.8	0.0557	"	"	"	"	"	"	
Sodium	113	0.0557	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.81	0.100	units	1	BEC0124	03/05/21	03/05/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BEC0096	03/04/21	03/04/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

Nessu #16
2102371-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.06	0.0100		mmhos/cm	1	BEC0082	03/03/21	03/03/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.25			pH Units	1	BEC0083	03/03/21	03/03/21	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Parker 44-15
2102371-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0033	03/01/21	03/02/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0422	02/27/21	03/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Parker 44-15
2102371-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0123	03/05/21	03/07/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.67	0.218	mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B	
Barium	96.1	0.437	"	"	"	"	"	"	
Cadmium	ND	0.218	"	"	"	"	"	"	
Boron	0.107	0.0100	mg/L	"	BEC0004	03/01/21	03/02/21	"	
Copper	9.42	0.437	mg/kg dry	"	BEC0021	03/01/21	03/02/21	"	
Lead	8.95	0.218	"	"	"	"	"	"	
Nickel	8.66	0.437	"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Parker 44-15
2102371-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Selenium	1.69	0.284	mg/kg dry	1	BEC0021	03/01/21	03/02/21	EPA 6020B	
Silver	0.0447	0.0218	"	"	"	"	"	"	
Zinc	32.9	0.437	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0077	03/03/21	03/04/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.2	0.0546	mg/L dry	1	BEC0050	03/02/21	03/03/21	EPA 6020B	
Magnesium	22.3	0.0546	"	"	"	"	"	"	
Sodium	30.8	0.0546	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.744	0.100	units	1	BEC0124	03/05/21	03/05/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BEC0096	03/04/21	03/04/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

Parker 44-15
2102371-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.719	0.0100		mmhos/cm	1	BEC0082	03/03/21	03/03/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/22/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.08			pH Units	1	BEC0083	03/03/21	03/03/21	EPA 9045D	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0033 - EPA 5030 Soil MS

Blank (BEC0033-BLK1)

Prepared: 03/01/21 Analyzed: 03/02/21

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0355		"	0.0400		88.8	23-173				
Surrogate: Toluene-d8	0.0481		"	0.0400		120	20-170				
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167				

LCS (BEC0033-BS1)

Prepared: 03/01/21 Analyzed: 03/02/21

Benzene	0.162	0.0020	mg/kg	0.150		108	70-130				
Toluene	0.124	0.0050	"	0.150		82.6	70-130				
Ethylbenzene	0.130	0.0050	"	0.150		86.7	70-130				
m,p-Xylene	0.256	0.010	"	0.300		85.5	70-130				
o-Xylene	0.133	0.0050	"	0.150		88.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		101	23-173				
Surrogate: Toluene-d8	0.0363		"	0.0400		90.8	20-170				
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.3	21-167				

Matrix Spike (BEC0033-MS1)

Source: 2102386-01

Prepared: 03/01/21 Analyzed: 03/02/21

Benzene	0.163	0.0020	mg/kg	0.150	ND	109	70-130				
Toluene	0.122	0.0050	"	0.150	ND	81.5	70-130				
Ethylbenzene	0.129	0.0050	"	0.150	ND	86.2	70-130				
m,p-Xylene	0.251	0.010	"	0.300	ND	83.6	70-130				
o-Xylene	0.132	0.0050	"	0.150	ND	87.9	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0463		"	0.0400		116	23-173				
Surrogate: Toluene-d8	0.0347		"	0.0400		86.8	20-170				
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	21-167				

Summit Scientific

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1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0033 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0033-MSD1)	Source: 2102386-01			Prepared: 03/01/21 Analyzed: 03/02/21						
Benzene	0.156	0.0020	mg/kg	0.150	ND	104	70-130	4.46	30	
Toluene	0.117	0.0050	"	0.150	ND	78.2	70-130	4.08	30	
Ethylbenzene	0.122	0.0050	"	0.150	ND	81.6	70-130	5.49	30	
m,p-Xylene	0.234	0.010	"	0.300	ND	78.1	70-130	6.82	30	
o-Xylene	0.125	0.0050	"	0.150	ND	83.6	70-130	5.01	30	
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0400		107	23-173			
Surrogate: Toluene-d8	0.0353		"	0.0400		88.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	21-167			

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

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 BEB0422 - EPA 3550A

Blank (BEB0422-BLK1)

Prepared & Analyzed: 02/27/21

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

LCS (BEB0422-BS1)

Prepared & Analyzed: 02/27/21

C10-C28 (DRO)	586	50	mg/kg	500	117	70-130				
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Matrix Spike (BEB0422-MS1)

Source: 2102353-01

Prepared & Analyzed: 02/27/21

C10-C28 (DRO)	537	50	mg/kg	500	21.6	103	70-130			
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Matrix Spike Dup (BEB0422-MSD1)

Source: 2102353-01

Prepared & Analyzed: 02/27/21

C10-C28 (DRO)	548	50	mg/kg	500	21.6	105	70-130	2.18	20	
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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.





K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0123 - EPA 5030 Soil MS

Blank (BEC0123-BLK1)

Prepared: 03/05/21 Analyzed: 03/07/21

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0216</i>		"	<i>0.0333</i>		<i>64.9</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0177</i>		"	<i>0.0333</i>		<i>53.0</i>		<i>40-150</i>			

LCS (BEC0123-BS1)

Prepared: 03/05/21 Analyzed: 03/07/21

Acenaphthene	0.0336	0.00500	mg/kg	0.0333	101	31-137
Anthracene	0.0339	0.00500	"	0.0333	102	30-120
Benzo (a) anthracene	0.0357	0.00500	"	0.0333	107	30-120
Benzo (a) pyrene	0.0347	0.00500	"	0.0333	104	30-120
Benzo (b) fluoranthene	0.0284	0.00500	"	0.0333	85.1	30-120
Benzo (k) fluoranthene	0.0393	0.00500	"	0.0333	118	30-120
Chrysene	0.0333	0.00500	"	0.0333	99.9	30-120
Dibenz (a,h) anthracene	0.0277	0.00500	"	0.0333	83.0	30-120
Fluoranthene	0.0265	0.00500	"	0.0333	79.5	30-120
Fluorene	0.0331	0.00500	"	0.0333	99.3	30-120
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333	81.0	30-120
Pyrene	0.0273	0.00500	"	0.0333	81.9	35-142
1-Methylnaphthalene	0.0312	0.00500	"	0.0333	93.6	35-142
2-Methylnaphthalene	0.0336	0.00500	"	0.0333	101	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0366</i>		"	<i>0.0333</i>	<i>110</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0349</i>		"	<i>0.0333</i>	<i>105</i>	<i>40-150</i>

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0123 - EPA 5030 Soil MS

Matrix Spike (BEC0123-MS1)	Source: 2102363-01			Prepared: 03/05/21 Analyzed: 03/07/21						
Acenaphthene	0.0342	0.00500	mg/kg	0.0333	ND	103	31-137			
Anthracene	0.0334	0.00500	"	0.0333	ND	100	30-120			
Benzo (a) anthracene	0.0350	0.00500	"	0.0333	ND	105	30-120			
Benzo (a) pyrene	0.0340	0.00500	"	0.0333	ND	102	30-120			
Benzo (b) fluoranthene	0.0277	0.00500	"	0.0333	ND	83.2	30-120			
Benzo (k) fluoranthene	0.0391	0.00500	"	0.0333	ND	117	30-120			
Chrysene	0.0330	0.00500	"	0.0333	0.00508	83.8	30-120			
Dibenz (a,h) anthracene	0.0277	0.00500	"	0.0333	ND	83.1	30-120			
Fluoranthene	0.0265	0.00500	"	0.0333	ND	79.6	30-120			
Fluorene	0.0341	0.00500	"	0.0333	ND	102	30-120			
Indeno (1,2,3-cd) pyrene	0.0267	0.00500	"	0.0333	ND	80.0	30-120			
Pyrene	0.0276	0.00500	"	0.0333	0.00224	76.1	35-142			
1-Methylnaphthalene	0.0300	0.00500	"	0.0333	0.00469	75.9	15-130			
2-Methylnaphthalene	0.0324	0.00500	"	0.0333	0.00891	70.5	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0362</i>		<i>"</i>	<i>0.0333</i>		<i>109</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0344</i>		<i>"</i>	<i>0.0333</i>		<i>103</i>	<i>40-150</i>			

Matrix Spike Dup (BEC0123-MSD1)	Source: 2102363-01			Prepared: 03/05/21 Analyzed: 03/07/21						
Acenaphthene	0.0340	0.00500	mg/kg	0.0333	ND	102	31-137	0.681	30	
Anthracene	0.0328	0.00500	"	0.0333	ND	98.5	30-120	1.66	30	
Benzo (a) anthracene	0.0342	0.00500	"	0.0333	ND	103	30-120	2.31	30	
Benzo (a) pyrene	0.0337	0.00500	"	0.0333	ND	101	30-120	1.01	30	
Benzo (b) fluoranthene	0.0272	0.00500	"	0.0333	ND	81.7	30-120	1.86	30	
Benzo (k) fluoranthene	0.0387	0.00500	"	0.0333	ND	116	30-120	0.965	30	
Chrysene	0.0322	0.00500	"	0.0333	0.00508	81.4	30-120	2.44	30	
Dibenz (a,h) anthracene	0.0278	0.00500	"	0.0333	ND	83.3	30-120	0.242	30	
Fluoranthene	0.0251	0.00500	"	0.0333	ND	75.4	30-120	5.44	30	
Fluorene	0.0336	0.00500	"	0.0333	ND	101	30-120	1.65	30	
Indeno (1,2,3-cd) pyrene	0.0268	0.00500	"	0.0333	ND	80.3	30-120	0.358	30	
Pyrene	0.0270	0.00500	"	0.0333	0.00224	74.4	35-142	2.11	30	
1-Methylnaphthalene	0.0310	0.00500	"	0.0333	0.00469	78.8	15-130	3.18	50	
2-Methylnaphthalene	0.0324	0.00500	"	0.0333	0.00891	70.4	15-130	0.134	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0361</i>		<i>"</i>	<i>0.0333</i>		<i>108</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0332</i>		<i>"</i>	<i>0.0333</i>		<i>99.6</i>	<i>40-150</i>			

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BEC0004 - EPA 3050B

Blank (BEC0004-BLK1)

Prepared: 03/01/21 Analyzed: 03/02/21

Boron ND 0.0100 mg/L

LCS (BEC0004-BS1)

Prepared: 03/01/21 Analyzed: 03/02/21

Boron 5.52 0.0100 mg/L 5.00 110 80-120

Duplicate (BEC0004-DUP1)

Source: 2102363-01

Prepared: 03/01/21 Analyzed: 03/02/21

Boron 0.142 0.0100 mg/L 0.151 6.11 20

Matrix Spike (BEC0004-MS1)

Source: 2102363-01

Prepared: 03/01/21 Analyzed: 03/02/21

Boron 5.12 0.0100 mg/L 5.00 0.151 99.4 75-125

Matrix Spike Dup (BEC0004-MSD1)

Source: 2102363-01

Prepared: 03/01/21 Analyzed: 03/02/21

Boron 5.02 0.0100 mg/L 5.00 0.151 97.5 75-125 1.92 25

Batch BEC0021 - EPA 3050B

Blank (BEC0021-BLK1)

Prepared & Analyzed: 03/01/21

Arsenic ND 0.200 mg/kg wet
Barium ND 0.400 "
Cadmium ND 0.200 "
Copper ND 0.400 "
Lead ND 0.200 "
Nickel ND 0.400 "
Selenium ND 0.260 "
Silver ND 0.0200 "
Zinc ND 0.400 "

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BEC0021 - EPA 3050B

LCS (BEC0021-BS1)

Prepared & Analyzed: 03/01/21

Arsenic	39.7	0.200	mg/kg wet	40.0		99.2	80-120			
Barium	37.5	0.400	"	40.0		93.8	80-120			
Cadmium	2.01	0.200	"	2.00		100	80-120			
Copper	38.0	0.400	"	40.0		95.0	80-120			
Lead	18.9	0.200	"	20.0		94.6	80-120			
Nickel	38.6	0.400	"	40.0		96.4	80-120			
Selenium	3.75	0.260	"	4.00		93.7	80-120			
Silver	1.93	0.0200	"	2.00		96.6	80-120			
Zinc	40.7	0.400	"	40.0		102	80-120			

Duplicate (BEC0021-DUP1)

Source: 2102369-01

Prepared & Analyzed: 03/01/21

Arsenic	3.36	0.225	mg/kg dry		2.95			12.9	30	
Barium	94.0	0.450	"		89.8			4.57	30	
Cadmium	0.177	0.225	"		0.148			18.0	30	
Copper	8.73	0.450	"		8.11			7.40	30	
Lead	8.73	0.225	"		8.25			5.65	30	
Nickel	9.81	0.450	"		9.00			8.67	30	
Selenium	1.50	0.292	"		1.41			6.08	30	
Silver	0.0257	0.0225	"		0.0316			20.5	30	
Zinc	32.0	0.450	"		29.6			7.77	30	

Matrix Spike (BEC0021-MS1)

Source: 2102369-01

Prepared & Analyzed: 03/01/21

Arsenic	49.4	0.225	mg/kg dry	45.0	2.95	103	75-125			
Barium	141	0.450	"	45.0	89.8	114	75-125			
Cadmium	2.50	0.225	"	2.25	0.148	105	75-125			
Copper	53.0	0.450	"	45.0	8.11	99.9	75-125			
Lead	30.9	0.225	"	22.5	8.25	101	75-125			
Nickel	56.0	0.450	"	45.0	9.00	105	75-125			
Selenium	5.33	0.292	"	4.50	1.41	87.2	75-125			
Silver	2.29	0.0225	"	2.25	0.0316	101	75-125			
Zinc	81.5	0.450	"	45.0	29.6	116	75-125			

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BEC0021 - EPA 3050B

Matrix Spike Dup (BEC0021-MSD1)

Source: 2102369-01

Prepared & Analyzed: 03/01/21

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit
Arsenic	47.9	0.225	mg/kg dry	45.0	2.95	99.9	75-125	3.15	25
Barium	145	0.450	"	45.0	89.8	124	75-125	2.98	25
Cadmium	2.43	0.225	"	2.25	0.148	101	75-125	2.95	25
Copper	52.7	0.450	"	45.0	8.11	99.0	75-125	0.686	25
Lead	36.2	0.225	"	22.5	8.25	124	75-125	16.0	25
Nickel	54.1	0.450	"	45.0	9.00	100	75-125	3.46	25
Selenium	5.37	0.292	"	4.50	1.41	88.2	75-125	0.835	25
Silver	2.23	0.0225	"	2.25	0.0316	97.9	75-125	2.59	25
Zinc	81.5	0.450	"	45.0	29.6	115	75-125	0.0755	25

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEC0077 - 3060A Mod

Blank (BEC0077-BLK1)

Prepared: 03/03/21 Analyzed: 03/04/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEC0077-BS1)

Prepared: 03/03/21 Analyzed: 03/04/21

Chromium, Hexavalent 24.2 0.30 mg/kg wet 25.0 97.0 80-120

Duplicate (BEC0077-DUP1)

Source: 2102369-01

Prepared: 03/03/21 Analyzed: 03/04/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEC0077-MS1)

Source: 2102369-01

Prepared: 03/03/21 Analyzed: 03/04/21

Chromium, Hexavalent 25.4 0.30 mg/kg dry 28.1 ND 90.2 75-125

Matrix Spike Dup (BEC0077-MSD1)

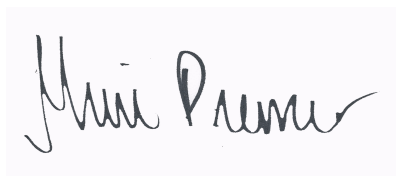
Source: 2102369-01

Prepared: 03/03/21 Analyzed: 03/04/21

Chromium, Hexavalent 25.3 0.30 mg/kg dry 28.1 ND 90.0 75-125 0.222 20

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0050 - General Preparation

Blank (BEC0050-BLK1)

Prepared: 03/02/21 Analyzed: 03/03/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BEC0050-BS1)

Prepared: 03/02/21 Analyzed: 03/03/21

Calcium	4.94	0.0500	mg/L wet	5.00	98.9	70-130				
Magnesium	5.15	0.0500	"	5.00	103	70-130				
Sodium	4.92	0.0500	"	5.00	98.3	70-130				

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

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 BEC0096 - General Preparation

Duplicate (BEC0096-DUP1)	Source: 2102371-01			Prepared & Analyzed: 03/04/21							
% Solids	93.0		%		88.6			4.90		20	

Summit Scientific

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0082 - General Preparation

Blank (BEC0082-BLK1)

Prepared & Analyzed: 03/03/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEC0082-BS1)

Prepared & Analyzed: 03/03/21

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 90-110

Duplicate (BEC0082-DUP1)

Source: 2102363-01

Prepared & Analyzed: 03/03/21

Specific Conductance (EC) 0.603 0.0100 mmhos/cm 0.623 3.31 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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Background Samples

Project Number: [none]
 Project Manager: Max Knop

Reported:
 03/08/21 13:03

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0083 - General Preparation

LCS (BEC0083-BS1)

Prepared & Analyzed: 03/03/21

pH	9.21	pH Units	9.21	100	95-105
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Duplicate (BEC0083-DUP1)

Source: 2102363-01

Prepared & Analyzed: 03/03/21

pH	8.68	pH Units	8.57	1.28	20
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Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Background Samples

Project Number: [none]
Project Manager: Max Knop

Reported:
03/08/21 13:03

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

February 09, 2021

Max Knop

K.P. Kauffman

1675 Broadway


Denver, CO 80202

RE: Robert Berge #1

Work Order #2102013

Enclosed are the results of analyses for samples received by Summit Scientific on 02/01/21 10:06. 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



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W (1)	2102013-01	Soil	01/27/21 10:00	02/01/21 10:06
N (2)	2102013-02	Soil	01/27/21 10:00	02/01/21 10:06
E (3)	2102013-03	Soil	01/27/21 10:00	02/01/21 10:06
M (4)	2102013-04	Soil	01/27/21 10:00	02/01/21 10:06
S (5)	2102013-05	Soil	01/27/21 10:00	02/01/21 10:06

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.

Summit Scientific 2102013

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client: KP Kauffman
 Address: 1675 Broadway, Suite 2800
 City/State/Zip: Denver, CO 80202
 Phone: 303-825-4822 Fax: 303-825-4825
 Sampler Name: KWS

Project Manager: Max Knop
 E-Mail: mknop@kpk.com; mduran@kpk.com
 Project Name: Robert Berge #1
 Project Number: _____

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:								Special Instructions							
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Table 915-1 Suite															
W (1)	1/27/2021	10:00	1						x																		
N (2)	1/27/2021	10:00	1						x																		
E (3)	1/27/2021	10:00	1						x																		
M (4)	1/27/2021	10:00	1						x																		
S (5)	1/27/2021	10:00	1						x																		
Relinquished by: <u>Stephanie Zh</u>				Date/Time: <u>2-1-21 10:18</u>				Received by: <u>[Signature]</u>				Date/Time: <u>02-01-21 10:06</u>				Turn Around Time (Check)								Notes:			
																Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>											
Relinquished by:				Date/Time:				Received by:				Date/Time:				Sample Integrity:											
Relinquished by:				Date/Time:				Received in Lab by:				Date/Time:				Temperature Upon Receipt: <u>2.9</u>											
																Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											

2102013

Sample Receipt Checklist

S2 Work Order _____

Client: KP KAUFFMAN Client Project ID: ROBERT BERGE #1

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>2.9</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.	<u>X</u>			
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
If custody seals are present, are they intact ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ? 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 ⁽¹⁾ ? Record the pH in Comments.			<u>X</u>	
If dissolved metals are requested, were samples field filtered?			<u>X</u>	
Additional Comments (if any):				

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

KP
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

02/01/2021
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

W (1)
2102013-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEB0070	02/04/21	02/05/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		116 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BEB0064	02/03/21	02/05/21	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		88.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

W (1)
2102013-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEB0091	02/05/21	02/08/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.14	0.255	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B	
Barium	156	0.511	"	"	"	"	"	"	
Cadmium	ND	0.255	"	"	"	"	"	"	
Copper	6.35	0.511	"	"	"	"	"	"	
Lead	6.60	0.255	"	"	"	"	"	"	
Nickel	9.31	0.511	"	"	"	"	"	"	
Selenium	ND	0.511	"	"	"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

W (1)
2102013-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Silver	0.0462	0.0255	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B
Zinc	27.2	0.511	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEB0075	02/04/21	02/05/21	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.3		%	1	BEB0065	02/04/21	02/04/21	Calculation	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

N (2)
2102013-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0070	02/04/21	02/05/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0064	02/03/21	02/05/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

N (2)
2102013-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEB0091	02/05/21	02/08/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.43	0.260	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B	
Barium	92.9	0.520	"	"	"	"	"	"	
Cadmium	ND	0.260	"	"	"	"	"	"	
Copper	13.2	0.520	"	"	"	"	"	"	
Lead	11.3	0.260	"	"	"	"	"	"	
Nickel	15.1	0.520	"	"	"	"	"	"	
Selenium	0.570	0.520	"	"	"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

N (2)
2102013-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Silver	0.0747	0.0260	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B
Zinc	54.8	0.520	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEB0075	02/04/21	02/05/21	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.9		%	1	BEB0065	02/04/21	02/04/21	Calculation	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

E (3)
2102013-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0070	02/04/21	02/05/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0064	02/03/21	02/05/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

E (3)
2102013-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEB0091	02/05/21	02/08/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.72	0.261	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B	
Barium	99.9	0.522	"	"	"	"	"	"	
Cadmium	ND	0.261	"	"	"	"	"	"	
Copper	13.7	0.522	"	"	"	"	"	"	
Lead	11.0	0.261	"	"	"	"	"	"	
Nickel	24.1	0.522	"	"	"	"	"	"	
Selenium	ND	0.522	"	"	"	"	"	"	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

E (3)
2102013-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Silver	0.0508	0.0261	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B	
Zinc	48.6	0.522	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEB0075	02/04/21	02/05/21	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.6		%	1	BEB0065	02/04/21	02/04/21	Calculation	

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

M (4)
2102013-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0070	02/04/21	02/05/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0064	02/03/21	02/05/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

M (4)
2102013-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEB0091	02/05/21	02/09/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.05	0.254	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B	
Barium	51.7	0.508	"	"	"	"	"	"	
Cadmium	ND	0.254	"	"	"	"	"	"	
Copper	6.89	0.508	"	"	"	"	"	"	
Lead	10.7	0.254	"	"	"	"	"	"	
Nickel	7.44	0.508	"	"	"	"	"	"	
Selenium	ND	0.508	"	"	"	"	"	"	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

M (4)
2102013-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Silver	0.0350	0.0254	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B
Zinc	30.7	0.508	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEB0075	02/04/21	02/05/21	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	BEB0065	02/04/21	02/04/21	Calculation	

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

S (5)
2102013-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEB0070	02/04/21	02/05/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEB0064	02/03/21	02/05/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		79.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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1675 Broadway
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Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

S (5)
2102013-05 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEB0091	02/05/21	02/09/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	"	"	"	"	"	"	

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.05	0.247	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B	
Barium	687	0.494	"	"	"	"	"	"	
Cadmium	ND	0.247	"	"	"	"	"	"	
Copper	7.10	0.494	"	"	"	"	"	"	
Lead	6.80	0.247	"	"	"	"	"	"	
Nickel	9.16	0.494	"	"	"	"	"	"	
Selenium	ND	0.494	"	"	"	"	"	"	

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
 Project Manager: Max Knop

Reported:
 02/09/21 17:11

S (5)
2102013-05 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Silver	0.0376	0.0247	mg/kg dry	1	BEB0029	02/02/21	02/03/21	EPA 6020B
Zinc	24.3	0.494	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEB0075	02/04/21	02/05/21	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BEB0065	02/04/21	02/04/21	Calculation	

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1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEB0070 - EPA 5030 Soil MS

Blank (BEB0070-BLK1)

Prepared & Analyzed: 02/04/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0510		"	0.0400		128	23-173			
Surrogate: Toluene-d8	0.0457		"	0.0400		114	20-170			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	21-167			

LCS (BEB0070-BS1)

Prepared & Analyzed: 02/04/21

Benzene	0.0776	0.0020	mg/kg	0.100		77.6	70-130			
Toluene	0.0801	0.0050	"	0.100		80.1	70-130			
Ethylbenzene	0.0944	0.0050	"	0.100		94.4	70-130			
m,p-Xylene	0.176	0.010	"	0.200		88.2	70-130			
o-Xylene	0.0891	0.0050	"	0.100		89.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	21-167			

Matrix Spike (BEB0070-MS1)

Source: 2102014-01

Prepared: 02/04/21 Analyzed: 02/05/21

Benzene	0.0770	0.0020	mg/kg	0.100	ND	77.0	70-130			
Toluene	0.0706	0.0050	"	0.100	ND	70.6	70-130			
Ethylbenzene	0.0842	0.0050	"	0.100	ND	84.2	70-130			
m,p-Xylene	0.157	0.010	"	0.200	ND	78.6	70-130			
o-Xylene	0.0825	0.0050	"	0.100	ND	82.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.5	23-173			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	21-167			

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

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 BEB0070 - EPA 5030 Soil MS

Matrix Spike Dup (BEB0070-MSD1)	Source: 2102014-01			Prepared: 02/04/21 Analyzed: 02/05/21						
Benzene	0.0745	0.0020	mg/kg	0.100	ND	74.5	70-130	3.29	30	
Toluene	0.0740	0.0050	"	0.100	ND	74.0	70-130	4.69	30	
Ethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130	3.88	30	
m,p-Xylene	0.164	0.010	"	0.200	ND	82.1	70-130	4.37	30	
o-Xylene	0.0842	0.0050	"	0.100	ND	84.2	70-130	2.05	30	
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.4	23-173			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		95.9	21-167			

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEB0064 - EPA 3550A

Blank (BEB0064-BLK1)

Prepared: 02/03/21 Analyzed: 02/05/21

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

LCS (BEB0064-BS1)

Prepared: 02/03/21 Analyzed: 02/05/21

C10-C28 (DRO)	428	50	mg/kg	500	85.7	70-130				
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Matrix Spike (BEB0064-MS1)

Source: 2102013-01

Prepared: 02/03/21 Analyzed: 02/05/21

C10-C28 (DRO)	370	50	mg/kg	500	14.5	71.1	70-130			
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Matrix Spike Dup (BEB0064-MSD1)

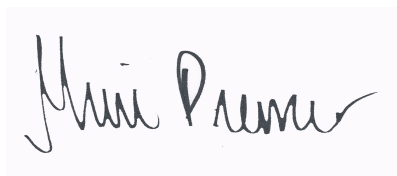
Source: 2102013-01

Prepared: 02/03/21 Analyzed: 02/05/21

C10-C28 (DRO)	370	50	mg/kg	500	14.5	71.1	70-130	0.0538	20	
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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEB0091 - EPA 5030 Soil MS

Blank (BEB0091-BLK1)

Prepared: 02/05/21 Analyzed: 02/06/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.0100	"							
2-Methylnaphthalene	ND	0.0100	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0180</i>		"	<i>0.0333</i>		<i>53.9</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0156</i>		"	<i>0.0333</i>		<i>46.9</i>		<i>40-150</i>		

LCS (BEB0091-BS1)

Prepared: 02/05/21 Analyzed: 02/06/21

Acenaphthene	0.0257	0.00500	mg/kg	0.0333		77.2		31-137		
Anthracene	0.0283	0.00500	"	0.0333		84.9		30-120		
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.3		30-120		
Benzo (a) pyrene	0.0218	0.00500	"	0.0333		65.3		30-120		
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333		61.9		30-120		
Benzo (k) fluoranthene	0.0206	0.00500	"	0.0333		61.8		30-120		
Chrysene	0.0229	0.00500	"	0.0333		68.6		30-120		
Dibenz (a,h) anthracene	0.0210	0.0100	"	0.0333		63.0		30-120		
Fluoranthene	0.0221	0.00500	"	0.0333		66.4		30-120		
Fluorene	0.0293	0.00500	"	0.0333		87.8		30-120		
Indeno (1,2,3-cd) pyrene	0.0224	0.0100	"	0.0333		67.3		30-120		
Pyrene	0.0191	0.00500	"	0.0333		57.2		35-142		
1-Methylnaphthalene	0.0275	0.0100	"	0.0333		82.4		35-142		
2-Methylnaphthalene	0.0260	0.0100	"	0.0333		78.1		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0311</i>		"	<i>0.0333</i>		<i>93.4</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0291</i>		"	<i>0.0333</i>		<i>87.4</i>		<i>40-150</i>		

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEB0091 - EPA 5030 Soil MS

Matrix Spike (BEB0091-MS1)	Source: 2101246-01			Prepared: 02/05/21 Analyzed: 02/06/21					
Acenaphthene	0.0249	0.00500	mg/kg	0.0333	ND	74.8	31-137		
Anthracene	0.0278	0.00500	"	0.0333	ND	83.5	30-120		
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	ND	70.1	30-120		
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.2	30-120		
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.2	30-120		
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Chrysene	0.0229	0.00500	"	0.0333	ND	68.7	30-120		
Dibenz (a,h) anthracene	0.0171	0.0100	"	0.0333	ND	51.3	30-120		
Fluoranthene	0.0215	0.00500	"	0.0333	ND	64.6	30-120		
Fluorene	0.0285	0.00500	"	0.0333	ND	85.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0179	0.0100	"	0.0333	ND	53.8	30-120		
Pyrene	0.0197	0.00500	"	0.0333	ND	59.2	35-142		
1-Methylnaphthalene	0.0273	0.0100	"	0.0333	ND	81.8	15-130		
2-Methylnaphthalene	0.0256	0.0100	"	0.0333	ND	76.7	15-130		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0323</i>		<i>"</i>	<i>0.0333</i>		<i>97.0</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0288</i>		<i>"</i>	<i>0.0333</i>		<i>86.4</i>	<i>40-150</i>		

Matrix Spike Dup (BEB0091-MSD1)	Source: 2101246-01			Prepared: 02/05/21 Analyzed: 02/06/21					
Acenaphthene	0.0243	0.00500	mg/kg	0.0333	ND	73.0	31-137	2.50	30
Anthracene	0.0275	0.00500	"	0.0333	ND	82.4	30-120	1.32	30
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	3.11	30
Benzo (a) pyrene	0.0195	0.00500	"	0.0333	ND	58.6	30-120	5.87	30
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	6.41	30
Benzo (k) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	6.01	30
Chrysene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	3.06	30
Dibenz (a,h) anthracene	0.0168	0.0100	"	0.0333	ND	50.5	30-120	1.52	30
Fluoranthene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	3.93	30
Fluorene	0.0285	0.00500	"	0.0333	ND	85.4	30-120	0.183	30
Indeno (1,2,3-cd) pyrene	0.0171	0.0100	"	0.0333	ND	51.4	30-120	4.46	30
Pyrene	0.0190	0.00500	"	0.0333	ND	57.1	35-142	3.70	30
1-Methylnaphthalene	0.0272	0.0100	"	0.0333	ND	81.7	15-130	0.122	50
2-Methylnaphthalene	0.0259	0.0100	"	0.0333	ND	77.8	15-130	1.50	50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0306</i>		<i>"</i>	<i>0.0333</i>		<i>91.9</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0273</i>		<i>"</i>	<i>0.0333</i>		<i>81.8</i>	<i>40-150</i>		

Summit Scientific

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEB0029 - EPA 3050B

Blank (BEB0029-BLK1)

Prepared & Analyzed: 02/02/21

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BEB0029-BS1)

Prepared & Analyzed: 02/02/21

Arsenic	32.4	0.200	mg/kg wet	40.0	81.0	80-120
Barium	35.9	0.400	"	40.0	89.9	80-120
Cadmium	1.70	0.200	"	2.00	85.1	80-120
Copper	35.6	0.400	"	40.0	89.1	80-120
Lead	16.9	0.200	"	20.0	84.5	80-120
Nickel	35.5	0.400	"	40.0	88.8	80-120
Selenium	3.73	0.400	"	4.00	93.3	80-120
Silver	1.64	0.0200	"	2.00	82.2	80-120
Zinc	35.0	0.400	"	40.0	87.4	80-120

Duplicate (BEB0029-DUP1)

Source: 2102005-01

Prepared & Analyzed: 02/02/21

Arsenic	8.75	0.279	mg/kg dry	8.65	1.12	30
Barium	95.2	0.559	"	91.2	4.34	30
Cadmium	0.152	0.279	"	0.137	9.81	30
Copper	9.58	0.559	"	7.70	21.8	30
Lead	10.6	0.279	"	9.01	16.2	30
Nickel	10.8	0.559	"	11.1	2.72	30
Selenium	0.329	0.559	"	0.382	15.1	30
Silver	0.0678	0.0279	"	0.0638	6.07	30
Zinc	45.5	0.559	"	46.4	1.87	30

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K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEB0029 - EPA 3050B

Matrix Spike (BEB0029-MS1)

Source: 2102005-01

Prepared & Analyzed: 02/02/21

Arsenic	51.3	0.279	mg/kg dry	55.9	8.65	76.4	75-125			
Barium	136	0.559	"	55.9	91.2	80.7	75-125			
Cadmium	2.54	0.279	"	2.79	0.137	86.1	75-125			
Copper	53.6	0.559	"	55.9	7.70	82.2	75-125			
Lead	31.7	0.279	"	27.9	9.01	81.3	75-125			
Nickel	54.5	0.559	"	55.9	11.1	77.7	75-125			
Selenium	5.25	0.559	"	5.59	0.382	87.1	75-125			
Silver	2.35	0.0279	"	2.79	0.0638	81.7	75-125			
Zinc	96.3	0.559	"	55.9	46.4	89.3	75-125			

Matrix Spike Dup (BEB0029-MSD1)

Source: 2102005-01

Prepared & Analyzed: 02/02/21

Arsenic	55.5	0.279	mg/kg dry	55.9	8.65	83.7	75-125	7.70	25
Barium	133	0.559	"	55.9	91.2	75.4	75-125	2.18	25
Cadmium	2.49	0.279	"	2.79	0.137	84.3	75-125	2.02	25
Copper	52.5	0.559	"	55.9	7.70	80.2	75-125	2.13	25
Lead	31.2	0.279	"	27.9	9.01	79.3	75-125	1.77	25
Nickel	55.7	0.559	"	55.9	11.1	79.9	75-125	2.24	25
Selenium	5.54	0.559	"	5.59	0.382	92.2	75-125	5.28	25
Silver	2.31	0.0279	"	2.79	0.0638	80.3	75-125	1.70	25
Zinc	94.7	0.559	"	55.9	46.4	86.4	75-125	1.68	25

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1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEB0075 - 3060A Mod

Blank (BEB0075-BLK1)

Prepared: 02/04/21 Analyzed: 02/05/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEB0075-BS1)

Prepared: 02/04/21 Analyzed: 02/05/21

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BEB0075-DUP1)

Source: 2102048-07

Prepared: 02/04/21 Analyzed: 02/05/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEB0075-MS1)

Source: 2102048-07

Prepared: 02/04/21 Analyzed: 02/05/21

Chromium, Hexavalent 30.1 0.30 mg/kg dry 30.4 ND 99.0 75-125

Matrix Spike Dup (BEB0075-MSD1)

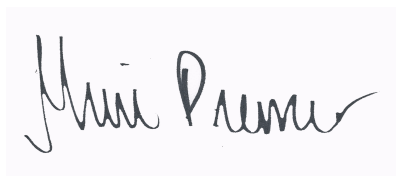
Source: 2102048-07

Prepared: 02/04/21 Analyzed: 02/05/21

Chromium, Hexavalent 30.0 0.30 mg/kg dry 30.4 ND 98.6 75-125 0.405 20

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K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
 Project Manager: Max Knop

Reported:
 02/09/21 17:11

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

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

Batch BEB0065 - General Preparation

Duplicate (BEB0065-DUP1)

Source: 2102010-01

Prepared & Analyzed: 02/04/21

% Solids	86.7		%		86.6			0.113	20	
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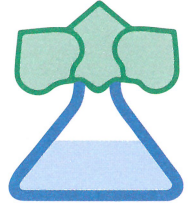
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American Agricultural Laboratory, Inc.

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"Analysis You Can Grow With"®



SUMMIT SCIENTIFIC
4653 TABLE MOUNTAIN DRIVE SUITE B
GOLDEN, CO 80403

ACCOUNT NO: 20491
DATE RECEIVED: 02/03/2021
DATE REPORTED: 02/08/2021

SATURATED PASTE EXTRACT ANALYSIS

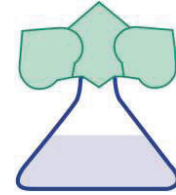
Lab No.	Grower	Sample ID	Depth inches	pH s.u.	Soluble Salts mmhos/cm
3318086	2102013	W 1	0-12	8.1	1.53
3318087	2102013	N 2	0-24	7.1	1.26
3318088	2102013	E 3	0-36	7.9	0.94
3318089	2102013	M 4	0-48	7.9	1.61
3318090	2102013	S 5	0-60	8.1	1.40

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20491

SUMMIT SCIENTIFIC

4653 TABLE MOUNTAIN DRIVE, SUITE B

GOLDEN CO 80403

NAME : 2102013

DATE RECEIVED: 02/03/2021

DATE REPORTED: 02/08/2021

SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS					
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm	
3318086	W 1		0-12													
3318087	N 2		0-24													
3318088	E 3		0-36													
3318089	M 4		0-48													
3318090	S 5		0-60													

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION					
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na
3318086										0.7							
3318087										0.7							
3318088										1.3							
3318089										0.6							
3318090										0.8							

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A		
3318086	9.79	6.80	13.13	4.56	6	0										
3318087	8.53	3.05	7.89	3.28	4	0										
3318088	3.57	1.18	4.09	2.65	3	0										
3318089	8.41	5.69	6.37	2.40	2	0										
3318090	5.17	2.89	12.87	6.41	8	1.5										

SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3318086	W 1															
3318087	N 2															
3318088	E 3															
3318089	M 4															
3318090	S 5															

Approved By: Kevin Grooms

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Robert Berge #1

Project Number: [none]
Project Manager: Max Knop

Reported:
02/09/21 17:11

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