February 2, 2021

Utah Department of Environmental Quality
Division of Environmental Response and Remediation
195 North 1950 West
PO Box 144840
Salt Lake City, Utah 84114-4840

Attn: Mr. Kevin Beery
P: 801.536.4214
E: kbeery@utah.gov

RE: Sub-Slab Soil Gas Sampling, Fourth Quarter 2020
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Facility ID No. 3000500, Release Site NUB
Terracon Project No. 61197153

Dear Mr. Beery:

As requested, Terracon Consultants, Inc. (Terracon) is pleased to provide the attached report summarizing sub-slab soil gas sampling at homes in the Angel Crossing residential subdivision (Workplan NUB-11) pertaining to the reported Triple Stop Chevron underground storage tank petroleum release.

1.0 INTRODUCTION

On February 14, 2019, Layton City reported petroleum odors in the basement of a home near the intersection of Gentile and Angel Streets. This prompted an investigation initiated by the Utah Department of Environmental Quality (UDEQ). On February 16, 2019 two other homeowners reported gasoline vapors in their basements. Vapor mitigation systems were installed within three of the residences under the direction of ATC Associates. The three vapor mitigation systems have since been replaced with properly designed sub-slab depressurization systems (SSDS) in the initial three residences and also installed in three additional homes. As a secondary mitigation measure, IQ Air Multi Gas air filtration units are operating within the basements of the homes with an operating SSDS.

2.0 SUB-SLAB SOIL GAS SAMPLING

Sub-slab soil gas samples were collected from the residences in November and December of 2020. Please refer to the attached standard operating procedures (SOPs) included with this report for the sampling methodology for soil gas collection from a sub-slab soil gas pin;

Soil Gas Sampling - Sub slab Pin Method,
Soil Gas Investigation Sampling Document, Version 1.0

Prior to sub-slab soil gas sample collection, a digital manometer was used to measure sub-slab vacuum induced by the operating SSDS. **Table 2** presents the vacuum measurements collected and **Exhibit 1** shows the location of the sampling points within the homes. In general, the sub-slab vacuums during November through December 2020 ranged from 0.001 to 0.156 inches of water. At the time of sampling (December 18, 2020) SSVMP-2 showed a vacuum of 0.004 inches of water, an order of magnitude less than 0.025 inches of water previously measured on June 22, 2020. To address the lower vacuum, a second suction point was installed by RadoVent on January 13, 2021. A subsequent vacuum measurement at SSVMP-2-on January 19, 2021 showed an increase from 0.004 inches water on December 18, 2020 to 0.057 inches water.

Table 1 presents the results for the soil gas samples collected. Results from the sampling event show the vapor concentration below the basement floor slabs are below the screening levels when compared to the State of Utah Division of Environmental Response and Remediation (DERR) RBCA Sub-Slab and Indoor Air Numbers.

If you have any questions regarding this submittal, please contact us at (801) 545-8500.

Sincerely,
Terracon Consultants, Inc.

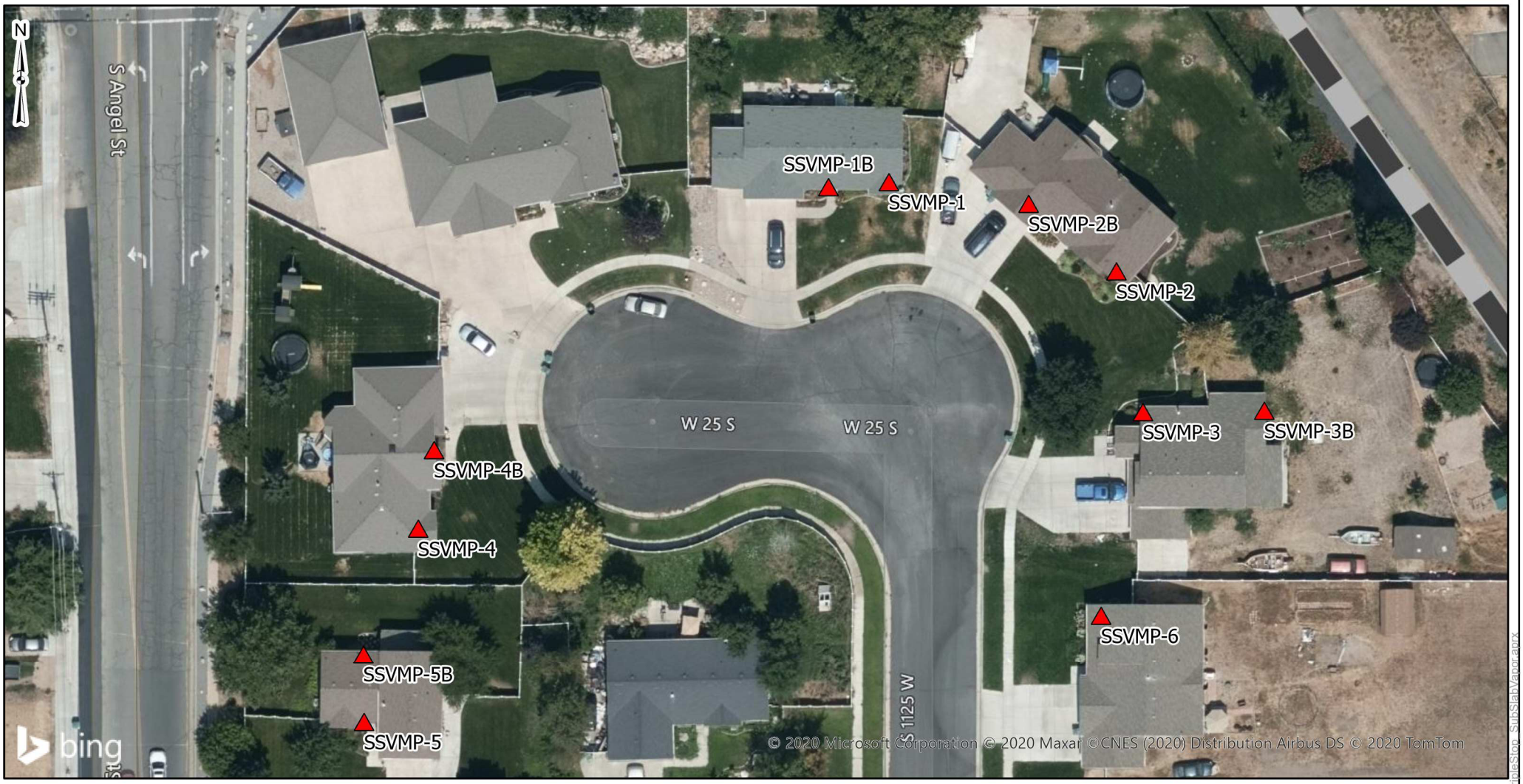
Curt Stripeika
Senior Project Manager
UST Certified Consultant #CC0003

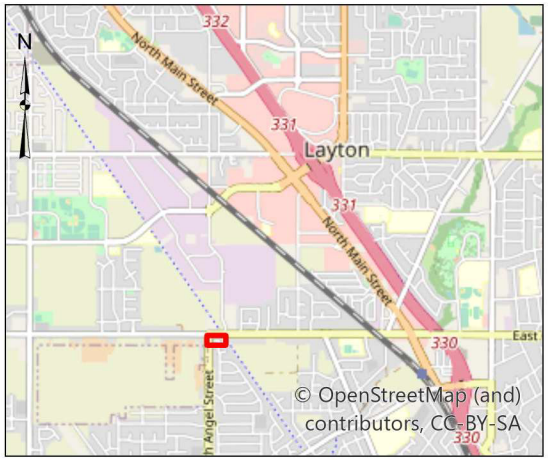
Benjamin B. Bowers
UST Certified Consultant #CC0195

Robert J. Roth, P.E.
Senior Engineer

Attachments; Exhibit 1, Table 1 & 2, and Laboratory analytical data, Soil Gas Sampling - Sub Slab Pin Method, Soil Gas Investigation Sampling Document, Version 1.0

Exhibit





▲ Sub-Slab Vapor Monitoring Point

0 50 100 200 Feet

DATA SOURCES:
ESRI WMS - World Aerial Imagery, OpenStreetMap

Project No.:	61197153
Date:	Jan 2021
Drawn By:	AST
Reviewed By:	CAS

Terracon
6949 S High Tech Dr, Ste 100 Midvale, UT 84047
PH. (801) 545-8500 terracon.com

Residence Sub-Slab Vapor Monitoring Points

TSC - Layton Chevron
Triple Stop Chevron Inc.
1034 West Gentile Street
Layton, UT 84041

Exhibit

1

N:\GIS\61197153_Triple_Stop_Chevron_Layton\Maps\61197153_TripleStop_SubSlabVapor.aprx

Tables

Table 1
Sub Slab Soil Gas Sample Analytical Results
Triple Stop Chevron - 1034 West Gentile Street, Layton, Utah
Facility ID No. 3000500, Release Site NUB

Method			EPA Method TO-15											
Analyte			MTBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	TPHv (C6 - C10)	TPHv (C6) Aliphatics	TPHv (C7 - C8) aliphatics	TPHv (C9 - C10) aliphatics	TPHv (C9 - C10) alkyl benzenes
Units			ug/m^3											
Utah RBCA sub-slab soil gas screening levels		Residential	104,333	9.8	174,000	35,333	3,533		105	NA	7,300	7,300	35,333	7,300
		Commercial	146,000	16.4	243,667	49,333	4,933		146	NA	10,233	10,233	49,333	10,233
Sample ID	Date	Lab ID	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
SSVMP-6														
SSVMP6	3/16/2020	E003069-01	<18	<3.2	**5.8**	<4.4	<8.8	<4.4	<5.3	<100	<100	<100	<100	<100
SSVMP6	7/8/2020	E007042-05	NA	**9.4**	**31**	<4.4	**11**	<4.4	<5.3	**180**	**130**	<100	<100	<100
SSVMP6	11/4/2020	E011051-01	NA	**6.6**	**35**	**1.9**	**12**	**2.6**	<2.1	**170**	**170**	<100	<100	<100
SSVMP-1														
SSVMP1	3/5/2020	E003070-03	<18	<3.2	**4.1**	<4.4	<8.8	<4.4	<5.3	<100	<100	<100	<100	<100
SSVMP1	6/22/2020	E007042-01	NA	<3.2	**4.2**	<4.4	<8.8	<4.4	<5.3	**330**	**110**	<100	**220**	<100
SSVMP1	11/4/2020	E011051-05	NA	<0.6	<3.1	<1.8	**2.1**	<1.8	<2.1	<100	<100	<100	<100	<100
SSVMP-5														
SSVMP5	3/16/2020	E003069-02	<18	<3.2	**3.8**	<4.4	<8.8	<4.4	NA	<100	<100	<100	<100	<100
SSVMP5	7/8/2020	E007042-04	NA	**3.9**	**22**	<4.4	**11**	<4.4	<5.3	<100	<100	<100	<100	<100
SSVMP5	11/4/2020	E011051-02	NA	**6.3**	**29**	**4.0**	**21**	**5.6**	<2.1	**280**	**280**	<100	<100	<100
SSVMP-3														
SSVMP3	3/5/2020	E003070-01	<18	<3.2	**5.8**	<4.4	<8.8	<4.4	NA	**170**	<100	<100	**170**	<100
SSVMP3	7/8/2020	E007042-06	NA	**6.1**	**18**	<4.4	<8.8	<4.4	<5.3	<100	<100	<100	<100	<100
SSVMP3	11/4/2020	E011051-04	NA	**2.1**	**12**	<1.8	8.1	2.0	<2.1	<100	<100	<100	<100	<100
SSVMP-2														
SSVMP2	3/5/2020	E003070-02	<18	<3.2	**5.0**	<4.4	<8.8	<4.4	NA	<100	<100	<100	<100	<100
SSVMP2	6/23/2020	E007042-02	NA	**7.7**	**32**	<4.4	**15**	**4.7**	<5.3	**250**	**190**	<100	<100	<100
SSVMP2	12/18/2020	E012077-01	NA	**6.2**	**21**	**15**	**36**	**6.7**	<5.3	**190**	**110**	<100	<100	<100
SSVMP-4														
SSVMP4	7/8/2020	E007042-03	NA	<3.2	**3.9**	<4.4	<8.8	<4.4	<5.3	<100	<100	<100	<100	<100
SSVMP4	11/4/2020	E011051-03	NA	<0.6	<3.1	<1.8	<1.8	<1.8	<2.1	<100	<100	<100	<100	<100

Notes: **NA - Not analyzed**
All samples analyzed by H&P by EPA Method TO-15, Utah Modified

Table 2
Sub Slab Vacuum Results
Triple Stop Chevron - 1034 West Gentile Street, Layton, Utah
Facility ID No. 3000500, Release Site NUB

SSVMP	Date	Vacuum (in H2O)
SSVMP-6		
SSVMP6	3/16/2020	-
SSVMP6	7/8/2020	0.076
SSVMP6	11/4/2020	0.077
SSVMP-1		
SSVMP1	3/5/2020	0.000
SSVMP1	6/22/2020	0.025
SSVMP1	11/4/2020	0.014
SSVMP1B	12/18/2020	0.156
SSVMP-5		
SSVMP5	3/16/2020	-
SSVMP5	7/8/2020	0.210
SSVMP5	11/4/2020	0.247
SSVMP5	12/18/2020	0.713
SSVMPB	12/18/2020	0.071
SSVMP-3		
SSVMP3	3/5/2020	0.003
SSVMP3	7/8/2020	0.289
SSVMP3	11/4/2020	0.301
SSVMP3	12/18/2020	0.266
SSVMP3B	12/18/2020	0.028
SSVMP-2		
SSVMP2	3/5/2020	0.007
SSVMP2	6/22/2020	0.025
SSVMP2	12/18/2020	0.004
SSVMP2	1/19/2021	0.057
SSVMP2B	12/18/2020	0.001
SSVMP2B	1/19/2021	0.008
SSVMP-4		
SSVMP4	7/8/2020	0.007
SSVMP4	9/22/2020	0.019
SSVMP4	11/4/2020	0.014
SSVMP4	12/18/2020	0.011

Laboratory Analytical Data

Mobile Geochemistry Inc.

18 November 2020

Curt Stripeika
Terracon - Midvale
6949 High Tech Drive
Midvale, UT 84047

H&P Project: TER111220-16
Client Project: Triple Stop

Dear Curt Stripeika:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 12-Nov-20 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Lisa Eminhizer
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC) for the fields of proficiency and analytes listed on those certificates. H& P is approved as an Environmental Testing Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs for the fields of proficiency and analytes included in the certification process and to the extent offered by the accreditation agency . Unless otherwise noted, accreditation certificate numbers, expiration of certificates, and scope of accreditation can be found at: www.handpmg.com/about/certifications. Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Terracon - Midvale	Project: TER111220-16	
6949 High Tech Drive	Project Number: Triple Stop	Reported:
Midvale, UT 84047	Project Manager: Curt Stripeika	18-Nov-20 16:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
	E011051-01	Vapor	04-Nov-20	12-Nov-20
	E011051-02	Vapor	04-Nov-20	12-Nov-20
	E011051-03	Vapor	04-Nov-20	12-Nov-20
	E011051-04	Vapor	04-Nov-20	12-Nov-20
	E011051-05	Vapor	04-Nov-20	12-Nov-20

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Terracon - Midvale	Project: TER111220-16	
6949 High Tech Drive	Project Number: Triple Stop	Reported:
Midvale, UT 84047	Project Manager: Curt Stripeika	18-Nov-20 16:45

DETECTIONS SUMMARY

Sample ID: Laboratory ID: **E011051-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**6.6**	0.6	ug/m3	EPA TO-15	
Toluene	**35**	3.1	ug/m3	EPA TO-15	
Ethylbenzene	**1.9**	1.8	ug/m3	EPA TO-15	
m,p-Xylene	**12**	1.8	ug/m3	EPA TO-15	
o-Xylene	**2.6**	1.8	ug/m3	EPA TO-15	
TPHv (C6 - C10)	**170**	100	ug/m3	Utah APH	
TPHv (C6) Aliphatics	**110**	100	ug/m3	Utah APH	

Sample ID: Laboratory ID: **E011051-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**6.3**	0.6	ug/m3	EPA TO-15	
Toluene	**29**	3.1	ug/m3	EPA TO-15	
Ethylbenzene	**4.0**	1.8	ug/m3	EPA TO-15	
m,p-Xylene	**21**	1.8	ug/m3	EPA TO-15	
o-Xylene	**5.6**	1.8	ug/m3	EPA TO-15	
TPHv (C6 - C10)	**280**	100	ug/m3	Utah APH	
TPHv (C6) Aliphatics	**220**	100	ug/m3	Utah APH	

Sample ID: Laboratory ID: **E011051-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **s** Laboratory ID: **E011051-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**2.1**	0.6	ug/m3	EPA TO-15	
Toluene	**12**	3.1	ug/m3	EPA TO-15	
m,p-Xylene	**8.1**	1.8	ug/m3	EPA TO-15	
o-Xylene	**2.0**	1.8	ug/m3	EPA TO-15	

Sample ID: Laboratory ID: **E011051-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
m,p-Xylene	**2.1**	1.8	ug/m3	EPA TO-15	

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Terracon - Midvale	Project: TER111220-16	
6949 High Tech Drive	Project Number: Triple Stop	Reported:
Midvale, UT 84047	Project Manager: Curt Stripeika	18-Nov-20 16:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
(E011051-01) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
Benzene	**6.6**	0.6	ug/m3	1	EK01714	17-Nov-20	17-Nov-20	EPA TO-15	
Toluene	**35**	3.1	"	"	"	"	"	"	
Ethylbenzene	**1.9**	1.8	"	"	"	"	"	"	
m,p-Xylene	**12**	1.8	"	"	"	"	"	"	
o-Xylene	**2.6**	1.8	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*97.8 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*		*77-127*	"	"	"	"	
(E011051-02) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
Benzene	**6.3**	0.6	ug/m3	1	EK01714	17-Nov-20	17-Nov-20	EPA TO-15	
Toluene	**29**	3.1	"	"	"	"	"	"	
Ethylbenzene	**4.0**	1.8	"	"	"	"	"	"	
m,p-Xylene	**21**	1.8	"	"	"	"	"	"	
o-Xylene	**5.6**	1.8	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*99.0 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.5 %*		*77-127*	"	"	"	"	
(E011051-03) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
Benzene	ND	0.6	ug/m3	1	EK01714	17-Nov-20	17-Nov-20	EPA TO-15	
Toluene	ND	3.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	1.8	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*77-127*	"	"	"	"	

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Terracon - Midvale	Project: TER111220-16	
6949 High Tech Drive	Project Number: Triple Stop	Reported:
Midvale, UT 84047	Project Manager: Curt Stripeika	18-Nov-20 16:45

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
(E011051-04) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
Benzene	**2.1**	0.6	ug/m3	1	EK01714	17-Nov-20	18-Nov-20	EPA TO-15	
Toluene	**12**	3.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	**8.1**	1.8	"	"	"	"	"	"	
o-Xylene	**2.0**	1.8	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.9 %*		*77-127*	"	"	"	"	
(E011051-05) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
Benzene	ND	0.6	ug/m3	1	EK01714	17-Nov-20	18-Nov-20	EPA TO-15	
Toluene	ND	3.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	**2.1**	1.8	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*		*77-127*	"	"	"	"	

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Petroleum Hydrocarbon Analysis by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
(E011051-01) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
TPHv (C6 - C10)	**170**	100	ug/m3	1	EK01714	17-Nov-20	17-Nov-20	Utah APH	
TPHv (C6) Aliphatics	**110**	100	"	"	"	"	"	"	
TPHv (C7 - C8) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) alkyl benzenes	ND	100	"	"	"	"	"	"	
(E011051-02) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
TPHv (C6 - C10)	**280**	100	ug/m3	1	EK01714	17-Nov-20	17-Nov-20	Utah APH	
TPHv (C6) Aliphatics	**220**	100	"	"	"	"	"	"	
TPHv (C7 - C8) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) alkyl benzenes	ND	100	"	"	"	"	"	"	
(E011051-03) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
TPHv (C6 - C10)	ND	100	ug/m3	1	EK01714	17-Nov-20	17-Nov-20	Utah APH	
TPHv (C6) Aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C7 - C8) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) alkyl benzenes	ND	100	"	"	"	"	"	"	
(E011051-04) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
TPHv (C6 - C10)	ND	100	ug/m3	1	EK01714	17-Nov-20	18-Nov-20	Utah APH	
TPHv (C6) Aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C7 - C8) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) alkyl benzenes	ND	100	"	"	"	"	"	"	

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Petroleum Hydrocarbon Analysis by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
BE011051-05) Vapor Sampled: 04-Nov-20 Received: 12-Nov-20									
TPHv (C6 - C10)	ND	100	ug/m3	1	EK01714	17-Nov-20	18-Nov-20	Utah APH	
TPHv (C6) Aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C7 - C8) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) aliphatics	ND	100	"	"	"	"	"	"	
TPHv (C9 - C10) alkyl benzenes	ND	100	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Terracon - Midvale	Project: TER111220-16	
6949 High Tech Drive	Project Number: Triple Stop	Reported:
Midvale, UT 84047	Project Manager: Curt Stripeika	18-Nov-20 16:45

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK01714 - TO-15										
Blank (EK01714-BLK1)				Prepared & Analyzed: 17-Nov-20						
Benzene	ND	0.6	ug/m3							
Toluene	ND	3.1	"							
Ethylbenzene	ND	1.8	"							
m,p-Xylene	ND	1.8	"							
o-Xylene	ND	1.8	"							
Naphthalene	ND	2.1	"							
Surrogate: 1,2-Dichloroethane-d4	*45.0*		"	*42.7*		*105*	*76-134*			
Surrogate: Toluene-d8	*41.0*		"	*41.6*		*98.6*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*67.6*		"	*72.6*		*93.1*	*77-127*			
LCS (EK01714-BS1)				Prepared & Analyzed: 17-Nov-20						
Benzene	48	0.6	ug/m3	64.8		73.5	69-119			
Toluene	58	3.1	"	76.8		75.9	66-119			
Ethylbenzene	67	1.8	"	88.4		75.6	70-124			
m,p-Xylene	74	1.8	"	88.4		83.7	61-134			
o-Xylene	67	1.8	"	88.4		76.3	67-125			
Surrogate: 1,2-Dichloroethane-d4	*43.1*		"	*42.7*		*101*	*76-134*			
Surrogate: Toluene-d8	*39.5*		"	*41.6*		*95.1*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*72.6*		"	*72.6*		*100*	*77-127*			
LCS Dup (EK01714-BSD1)				Prepared & Analyzed: 17-Nov-20						
Benzene	47	0.6	ug/m3	64.8		72.0	69-119	2.06	25	
Toluene	58	3.1	"	76.8		76.0	66-119	0.196	25	
Ethylbenzene	65	1.8	"	88.4		74.0	70-124	2.26	25	
m,p-Xylene	75	1.8	"	88.4		84.7	61-134	1.30	25	
o-Xylene	70	1.8	"	88.4		79.3	67-125	3.77	25	
Surrogate: 1,2-Dichloroethane-d4	*43.9*		"	*42.7*		*103*	*76-134*			
Surrogate: Toluene-d8	*39.0*		"	*41.6*		*93.8*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*72.2*		"	*72.6*		*99.5*	*77-127*			

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Terracon - Midvale	Project: TER111220-16	
6949 High Tech Drive	Project Number: Triple Stop	Reported:
Midvale, UT 84047	Project Manager: Curt Stripeika	18-Nov-20 16:45

Petroleum Hydrocarbon Analysis by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK01714 - TO-15										
Blank (EK01714-BLK1)				Prepared & Analyzed: 17-Nov-20						
TPHv (C6 - C10)	ND	100	ug/m3							
TPHv (C6) Aliphatics	ND	100	"							
TPHv (C7 - C8) aliphatics	ND	100	"							
TPHv (C9 - C10) aliphatics	ND	100	"							
TPHv (C9 - C10) alkyl benzenes	ND	100	"							

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Terracon - Midvale	Project:	TER111220-16	
6949 High Tech Drive	Project Number:	Triple Stop	Reported:
Midvale, UT 84047	Project Manager:	Curt Stripeika	18-Nov-20 16:45

Notes and Definitions

LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Mobile Geochemistry, Inc.

2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 11/6/20
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: Terracon	Project Name / #: Triple Stop
Lab Client Project Manager:	Project Location: Layton, Utah
Lab Client Address: 6949 S. high tech Dr.	Report E-Mail(s): Curt.Stripeika@Terracon.com
Lab Client City, State, Zip: Midvale, UT, 84047	
Phone Number: 801 545-8500	

Sample Receipt (Lab Use Only)

Date Rec'd: 11/12/20 Control #: 200767.01
H&P Project # TER111220-1b
Lab Work Order # E011051
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below
Receipt Gauge ID: 60206 Temp: RT
Outside Lab:
Receipt Notes/Tracking #: 1ZBJT6190516800079
Lab PM Initials: KB

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☒ **Standard** (7 days for preliminary report, 10 days for final report)
☐ **Rush** (specify):

Sampler Information

Sampler(s): Chase Maeser
Signature: Chase Maeser
Date: 11/4/20

Additional Instructions to Laboratory:

1LRLS - KB 11/12

Benzene, Toluene, Xylenes, Styl benz, Naph,

Utah APH/TPH - KB 11/12

*** Preferred VOC units (please choose one):**
☐ µg/L ☒ µg/m³ ☒ ppbv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☒ 8260SV ☒ TO-15 BTEX	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☐ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2	Utah TPH fractions			
B		11/4/20	1202	SS	1L Summa	411	-5.32		X								X			
C			1328	SS		405	-5.43		X								X			
R			1415	SS		117	-5.97		X								X			
D			1506	SS		403	-6.15		X								X			
B			1557	SS		419	-5.48		X								X			

Approved/Relinquished by:	Company: Terracon	Date: 11/6/20	Time: 1500	Received by:	Company: H&P	Date: 11/12/20	Time: 1230
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back