PARCEL 7 ADDITIONAL CHARACTERIZATION REPORT

CITY OF ALBUQUERQUE RAIL YARDS

Albuquerque, Bernalillo County, New Mexico



Prepared for:

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April 27, 2017



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ACRONYMS AND ABBREVIATIONS

ACBM asbestos-containing building materials

ATSF Atchison, Topeka and Santa Fe

Beacon Beacon Environmental Services
BNSF Burlington Northern Santa Fe

BTEX benzene, toluene, ethylbenzene, and total xylenes

CCOC Conditional Certificate of Completion

CNS Covenant Not to Sue
COA City of Albuquerque
COC Certificate of Completion

COPC contaminants of potential concern

Crisp Crisp Analytical LLC CSM conceptual site model

DCE DC Environmental DRO diesel range organics

EDB 1,2-dibromoethane

EPA U.S. Environmental Protection Agency

ft feet or foot

GRO gasoline range organics

HEAL Hall Environmental Analysis Laboratory

Innovar Innovar Environmental, Inc. INTERA INTERA Incorporated

LBP lead-based paint

LNAPL light non-aqueous phase liquid

MDL method detection limit

mg/cm² milligrams per square centimeter

mL milliliter

MRO motor oil range organics

NMED New Mexico Environment Department

OSHA Occupational Safety and Health Administration



PID photoionization detector

PPE personal protective equipment

Report this Parcel 7 Additional Characterization Report

Rhoades Environmental
RL reporting detection limit
RMD Radiation Monitoring Device

SIMs selective ion monitoring

Site Albuquerque Rail Yards located in downtown Albuquerque, New Mexico

SOP standard operating procedure SOW Scope of Work (INTERA, 2016a) SSHASP site-specific health and safety plan

TPH total petroleum hydrocarbons

VISL vapor intrusion screening level

Vista Vista Geosciences LLC VOC volatile organic compound

VRP Voluntary Remediation Program (New Mexico Environment Department)



1.0 INTRODUCTION

In accordance with the Scope of Work (SOW) submitted on August 10, 2016 (INTERA, 2016a) to the City of Albuquerque (COA), INTERA Incorporated (INTERA) is submitting this *Parcel 7 Additional Characterization Report* (Report) documenting the completion of the additional characterization activities conducted at the Albuquerque Rail Yards (Site) located in downtown Albuquerque, New Mexico in support of participation in the New Mexico Environmental Department (NMED) Voluntary Remediation Program (VRP). The Albuquerque Rail Yards consists of Areas A, B, C and Tract A. The Site location is presented on **Figure 1.**

1.1 Background

The Site is located between 2nd Street and Commercial Street in downtown Albuquerque, New Mexico, and comprises approximately 27 acres (Areas A, B, C and Tract A) located within the former Atchison, Topeka and Santa Fe (ATSF)/Burlington Northern Santa Fe (BNSF) Central Works Equipment Facility Railyard that operated from the 1880s to the early 1990s. As a result of previous operations, the Site sustained environmental impacts from both petroleum hydrocarbon and metal contamination. Contamination is present in both the Site vadose/unsaturated zone (Site soils and soil vapor) and in the saturated zone (Site groundwater) and includes residual light non-aqueous phase liquid (LNAPL), metals adsorbed to soil particles, organic vapors, and organic and inorganic solutes dissolved in groundwater.

Although substantial efforts have been made in the past to fully delineate contamination for impacted Site media, the extent of contamination is still unknown for certain media and Site areas and these are identified as data gaps in the Conceptual Site Model (CSM) developed for the Site (INTERA, 2015). In the CSM, INTERA concluded that the magnitude with which identified data gaps will impact Site redevelopment plans is dependent on the final redevelopment scenario(s) selected for the Site. Additional characterization sampling efforts at the Site should be conducted based on the redevelopment option(s) selected; however, full characterization or remediation of all impacted media may not be required if sufficient information exists to document that exposure pathways to these media are incomplete or if engineering controls are proposed that would render a potential exposure pathway incomplete. In addition, both asbestoscontaining building materials (ACBM) and lead-based paint (LBP) were used in many of the remaining Site buildings; contamination related to these building materials will also need to be mitigated during any building demolition or building renovation activities.

Numerous environmental investigations have been conducted at the Albuquerque Rail Yards since 1991. Current soil and groundwater environmental contamination persists at the Site. The nature and extent of the contamination within environmental media varies across the Site



regarding depth and contaminants of potential concern (COPCs). Metal contamination in soils is generally more prevalent in the center and northern portions of the Site, and petroleum hydrocarbon contamination persists in soils and groundwater in the central and southern portions of the Site. Based on the CSM developed for the Site, the following constituents are identified as Site soil COPCs (INTERA, 2016a):

- Residential: antimony, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chromium, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, iron, lead, thallium, TPH DRO + MRO (the sum of total petroleum hydrocarbons [TPH] diesel range organics [DRO] plus motor oil range organics [MRO]), and TPH
- Industrial/occupational: arsenic, benzo(a)pyrene, lead, thallium, TPH DRO + MRO, and TPH
- Construction worker: arsenic, chromium, lead, manganese, and thallium

Additionally, based on the magnitude of Site soil petroleum hydrocarbon concentrations, residual LNAPL is likely present in Site soils in the southeastern portion of the Site.

The COA and the Site Developer, are seeking to complete Site redevelopment within the NMED VRP. By actively participating in the NMED VRP (and upon successful completion of any remediation actions deemed necessary), the COA will be able to obtain a Conditional Certificate of Completion (CCOC) and/or Certificate of Completion (COC) for either the entire Site or specific parcels at the Site. The CCOC or the COC will document that current conditions in a designated area(s) and/or throughout the Site meet applicable environmental quality standards and will provide NMED enforcement protection for the COA and liability protection for lenders. In addition, once a CCOC or COC is issued, a Covenant Not to Sue (CNS) may be transferred to a selected prospective purchaser and/or future owner of the Site.

The Site Developer has divided the Site into ten parcels (Parcel 1 – Parcel 10) for redevelopment purposes. The locations of the ten parcels are shown on **Figure 2a.** Parcel 7, which this Report summarizes, coincides with the footprint of the historic Blacksmith Shop building with the exception that it also contains the 10-foot-wide walkway immediately west of this building to be preserved as a pedestrian and utility access easement for adjacent parcels (**Figure 2b**). Similar to Parcels 5 and 8, Parcel 7 is envisioned to house an anchor business tenancy. Parcel 7 will use Parcel 6 as its primary access easement to 2nd Street and will use the proposed subterranean parking contained in Parcel 10 to satisfy code parking requirements (Samitaur, 2014).



1.2 Scope of Work

INTERA developed a SOW to complete additional characterization activities throughout the Site to fill in the data gaps identified in the CSM (INTERA, 2015). The primary intended redevelopment use of Parcel 7 includes office/business space and includes the historic Blacksmith Shop building. Further characterization of Parcel 7 includes an ACBM and LBP survey, conducted by DCE, for the historic Blacksmith Shop building and sub-slab soil vapor sampling within the structure. Although the Site redevelopment plan has been developed, additional characterization activities were designed for a Site wide residential redevelopment scenario to allow flexibility for a variety of redevelopment plans. The CSM developed for the Site (INTERA, 2015), VRP Preliminary Work Plan (INTERA, 2016b), and Site redevelopment plan (Samitaur, 2014) were critical in the development of the scope of work.

The approved SOW (INTERA, 2016a) included the following tasks for Parcel 7:

- Collect four sub-slab soil vapor samples below the concrete slab of the Historic Blacksmith Shop structure using Vapor PinsTM and submit for analysis of volatile organic compound (VOCs) via U.S. Environmental Protection Agency (EPA) Method TO-17, and,
- Oversee an ACBM and LBP survey for the Historic Blacksmith Shop.

1.3 Work Plan Deviations

There were no work plan deviations during this additional characterization field event.



2.0 FIELD ACTIVITIES

Field activities for this additional characterization event were conducted on October 26, 2016 and November 2, 2016. The Site-Specific Health and Safety Plan (SSHASP) was reviewed in detail by INTERA field staff, was followed during all Site activities, and was used as a guide for the field-work health and safety meeting. Work was performed in Occupational Safety and Health Administration (OSHA) Level D personal protective equipment (PPE). Copies of the field notes and field forms are included in **Appendix A.**

2.1 Sub-Slab Soil Vapor Sampling

On November 2, 2016, four sub-slab soil vapor samples (SV-07-01, SV-07-02, SV-07-03 and SV-07-04) were collected below the concrete slab of the Historic Blacksmith Shop structure using Vapor PinsTM. The Vapor PinsTM borings were installed using a rotary hammer drill equipped with a 5/8-in hammer bit and drilled to an approximate depth of 2-feet below the top of the concrete slab. The concrete slab thickness ranged from approximately 5.5-inches to 13-inches thick, but the boring was continued to a depth of 2-feet in order to produce a small vapor well below each Vapor PinTM. The Vapor PinsTM were fitted with silicone sleeves and hammered into each slab hole per the Vapor PinTM installation standard operating procedure (SOP).

Soil vapor samples were collected through Teflon lined polyethylene tubing attached directly to the Vapor PinTM. The tubing was then connected to a three-way valve which is then connected to the hand-held sampling units and/or the collection vessel (sorbent tubes) as well as a vacuum pump located at the surface. Once the soil gas sampling system was set up, the soil gas was purged from the Vapor PinsTM boring using a vacuum pump and flow meter, carbon dioxide and oxygen (CO₂/O₂) readings were monitored, and purging continued until these readings remained stable for one minute. Once a minimum of three volumes was purged and stabilization was achieved, the soil gas was screened using a hand-held photoionization detector (PID) prior to sample collection and the concentration was recorded. The soil gas samples were then collected by INTERA by pumping through a sorbent tube at a rate of 200 milliliters (ml) per minute for a period of five minutes (total of 1-liter of soil vapor passes through the sorbent tube) at each sampling location.

The soil gas samples were submitted for laboratory analysis of VOCs via EPA Method TO-17 by Vista Geosciences LLC (Vista) to Beacon Environmental Services (Beacon). The laboratory analytical results are summarized in **Table 1**, copies of field forms are provided in **Appendix A**, and a copy of the sub-slab soil vapor laboratory report is in **Appendix B**.



2.2 ACBM and LBP Sampling

DC Environmental, Inc. (DCE) of Albuquerque, New Mexico, an INTERA subcontractor, performed an asbestos and LBP survey at the Site on October 26, 2016. The asbestos/LBP survey was conducted to determine the presence, location, and quantity of asbestos remaining within the Historic Blacksmith Shop and to establish the basis for the presence of lead-containing finishes within the Site structure (DCE, 2016).

DCE conducted a visual inspection for asbestos-containing building materials within the Historic Blacksmith Shop and collected eight bulk samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC (Crisp) of Carrollton, Texas. Crisp is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program (DCE, 2016).

The presence of lead-based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DCE conducted the surface coating screening survey of the interior and exterior of the building to generally identify building components coated with a surface coating that contains lead. The survey consisted of testing the lead concentrations of each of the accessible surfaces using a Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence (XRF) device. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter. If the XRF readings were between the 0.9 to 1.0 mg/cm² range, then the readings are declared as either lead-based paint or lead-containing materials, and sampling is recommended. Surfaces that were tested with the XRF device included, but were not limited to the following: doors, ceiling, painted walls, structural steel support, painted door components, roof components, ventilation duct, gates, and framing. In addition, bulk samples of paint chips were collected to verify the XRF readings. Lead-based paint is further defined if laboratory analysis determines the lead content to be one-half percent (0.5 %) by weight or greater when analyzed by Flame Atomic Absorption (DCE, 2016).



3.0 RESULTS AND DISCUSSION

The sub-slab soil vapor results of the 2016 additional characterization field activities conducted within Parcel 7 of the Site are summarized in the following subsections. These new data have been complied with historic data previously summarized in the Site CSM (INTERA, 2015) to provide an overall assessment of the nature and extent of the contamination for Parcel 7. A CSM Update section has been included to facilitate evaluation of all Site data with regards to impacts to future redevelopment.

Select soil vapor samples had elevated laboratory reporting detection limit (RLs) for select constituents due to interference from elevated concentrations of other compounds. For these samples, INTERA requested that the laboratory (Beacon) report using the method detection limit (MDL) and flag the results as estimated (J qualifier). Reporting down to the MDL resulted in all laboratory RLs being lower than the NMED vapor intrusion screening levels (VISLs) with the exception of 1,2-dibromoethane (EDB) in soil gas. The RL for EDB will be discussed further in Section 3.1.

NMED does not have an established VISLs for several constituents including: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, 1,4-dioxane, and 2-methylnaphthalene. INTERA was, however, able to calculate the VISLs for 1,2,4-trimethylbenzene and 1,4-dioxane using the U.S. Environmental Protection Agency (EPA) VISLs Calculator. The methodology behind the calculations is explained in more detail in **Appendix C**.

3.1 Sub-Slab Soil Vapor Results

1,3-dichlorobenzene was detected in three of the four sub-slab soil vapor samples: SV-07-02 (1013.24 micrograms per cubic meter $[\mu g/m^3]$), SV-07-03 (1127.89 $\mu g/m^3$), and SV-07-04 (1109.66 $\mu g/m^3$). NMED does not have an established VISL for 1,3-dichlorobenzene and a VISL could not be calculated using the EPA VISLs Calculator (**Appendix C**). Several VOC constituents were detected in samples SV-07-02, SV-07-3, and/or SV-07-04 including: 1,1,1-trichloroethane, 1,4-dioxane, benzene, ethylbenzene, o-xylene, p&m-xylene, and toluene; however, the detected concentrations did not exceed their respective NMED or EPA VISLs (**Table 1**). No VOCs were detected in the sub-slab soil vapor samples collected from SV-07-01.

A summary of the detected laboratory analytical results is provided in **Table 1.** Isopleth maps illustrating the distribution of select contaminants are provided in **Appendix B.** A copy of the laboratory analytical report is included in **Appendix B.** It should be noted that the laboratory RL for EDB ($10 \mu g/m^3$) was greater than the NMED VISL of 0.468 $\mu g/m^3$ and EPA VISL of 1.6



 $\mu g/m^3$ for EDB. EDB was not identified in any of the soil gas samples above the laboratory reporting limit.

3.1.1 Conceptual Site Model Update

The CSM identified that there was inadequate coverage with regard to sub-slab soil vapor data within Parcel 7. To fill this data gap, INTERA collected four sub-slab soil vapor samples within the Blacksmith Shop The results from the sub-slab soil vapor sampling revealed the presence of 1,1,1-trichloroethane, 1,3-dichlorobenzene, 1,4-dioxane, benzene, ethylbenzene, o-xylene, p&m-xylene, and toluene in soil vapor. NMED and EPA do not have an established VISL for 1,3-dichlorobenzene. The other detected soil vapor concentrations did not exceed their respective NMED and/or EPA VISLs.

3.2 ACBM and LBP Sampling Results

3.2.1 ACBM Sampling Results

DCE collected eight bulk asbestos samples the Historic Blacksmith Shop. Asbestos was not identified in any of the asbestos samples collected by DCE. A copy of the asbestos survey report, which includes the asbestos laboratory results, is provided in **Appendix D.**

3.2.2 LBP Sampling Results

LBP was identified in the Historic Blacksmith Shop. The lead based paint surfaces detected in the *Historic Blacksmith Shop* included:

- silver paint on an interior steel column.
- off-white paint on the wooden window sash located in the office,
- off-white paint on the steel stall casement window mullion located in the office,
- the cream paint on a wall located in the office,
- white paint located on floor striping, and,
- red paint on a steel office window.

An LBP chip analyses was conducted to verify XRF readings, and it confirmed LBP in the Historic Blacksmith Shop. A copy of the LBP survey report, which includes the LBP chip laboratory results and XRF screening results, is provided in **Appendix A.**

3.2.3 Conceptual Site Model Update

The CSM recommended that a Site inspection of all building materials at the Site be conducted to determine if the asbestos and LBP sampling historically conducted at the Site was comprehensive and fill in any data gaps as necessary. DCE reviewed the historical asbestos and LBP sampling locations and resulting data and designed their sample collection to target



locations and/or buildings that had not previously been surveyed and/or confirm locations already sampled.

Previous asbestos inspections conducted in 2013 by Rhoades Environmental (Rhoades) identified the collection of approximately 41 bulk asbestos samples within the Historic Blacksmith Shop (INTERA, 2015). ACBM were identified and include the following:

- the surface coat of the interior plaster in the office,
- the window glazing on the clear glass,
- the window glazing on the wood panes,
- the gray parapet tar located throughout the roof,
- the black parapet tar located throughout the roof, and,
- the window glazing on the plastic panes.

DCE's 2016 asbestos survey revealed no previously undocumented sources of asbestos. Details pertaining to the ACBM results are discussed in detail in Section 3.3.1 and in the DCE Survey Report provided in **Appendix D**.

Previous LBP samples collected in the Blacksmith Shop in 2011 by Innovar Environmental, Inc. (Innovar) indicate that LBP was identified in the Blacksmith Shop at multiple locations (INTERA, 2015). DCE screened over 30 paint samples in the Blacksmith Shop using the XRF device. In addition to identifying LBP, the 2016 results confirmed observations made by Innovar. Details pertaining to the locations of the LBP within the Blacksmith Shop is discussed in detail in Section 3.2.2 and in the DCE Survey Report provided in **Appendix D.**



4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the additional characterization and evaluation of all data, INTERA has compiled the following conclusions and recommendations.

4.1 Conclusions

- Sub-slab soil vapor concentrations did not exceed VISLs.
- The laboratory RL for EDB in soil gas exceeded the corresponding NMED VISL (**Table 1**).
- Asbestos and LBP were detected in the Blacksmith Shop.

4.2 Recommendations

Based on the synthesis of all data collected within Parcel 7, including the results of the recent additional characterization field event for Parcel 7, INTERA makes the following recommendations:

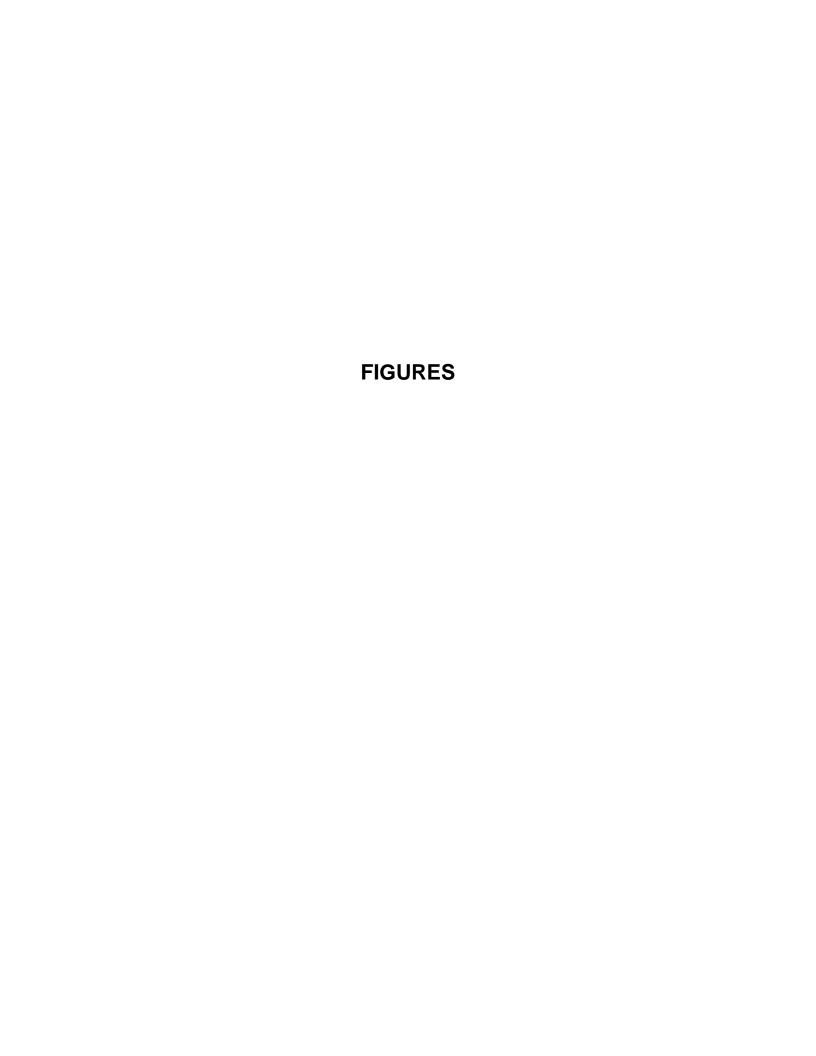
- Soil Gas Engineering Controls: There were no sub-slab soil vapor concentrations that exceeded NMED established VISLs. Even though the laboratory RL for EDB in soil gas exceeded the corresponding NMED VISL, EDB is not considered a contaminant of concern at the Site because it has not been identified above RL in either Site soil or ground water and was not associated with historical Site uses. Based on the current proposed redevelopment plan for this parcel, additional soil vapor sampling appears unwarranted. Should the redevelopment plan change or any new structure be constructed at the parcel, the potential for soil vapor intrusion should be evaluated. As a precaution, a vapor intrusion membrane should be installed for any new buildings. INTERA recommends documenting any engineering controls implemented via institutional controls.
- <u>Immobilization/Containment of Asbestos and LBP Materials:</u> The materials containing asbestos and LBP will require abatement or encapsulation before substantial renovation or demolition, if proposed, can commence. The final building renovation design should be considered and a decision will have to be made as to their final deposition. Any remaining asbestos and/or LBP left within the Blacksmith Shop will need to be documented, and a management plan will need to be developed stating how these materials should be handled following renovation activities.

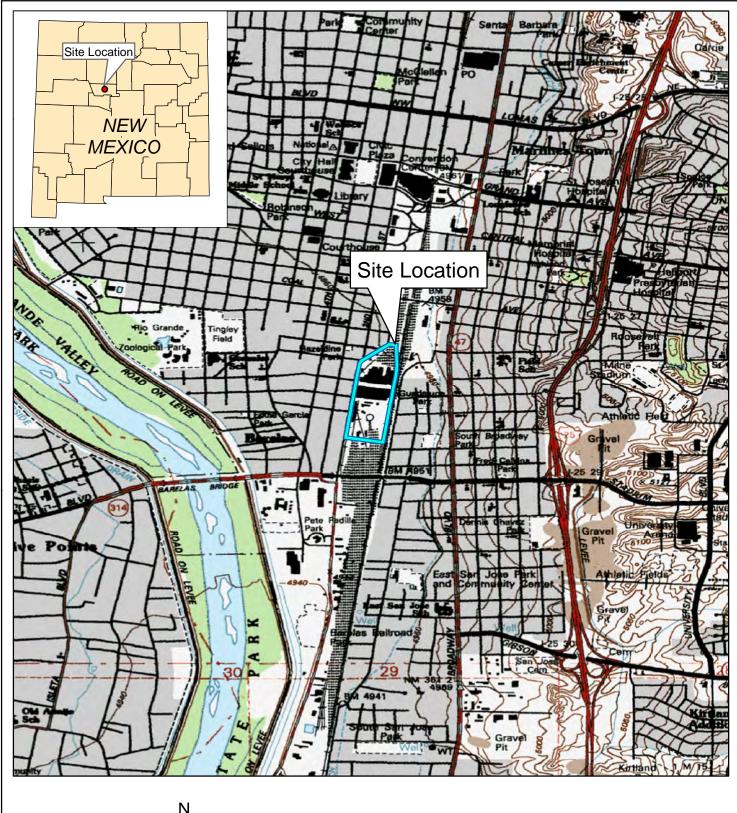


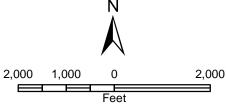
5.0 REFERENCES

- DC Environmental (DC), 2016. Asbestos and Lead Based Paint Survey, City of Albuquerque, Railyard Blacksmith Shop Parcel 7, Albuquerque, NM. November 9.
- INTERA Incorporated (INTERA), 2016a. Scope of Work and Cost Proposal for Additional Characterization, Voluntary Remediation Program Activities at the City of Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico. Prepared for the City of Albuquerque Metropolitan Redevelopment Agency. August 10.

Samitaur Constructs. 2014. Albuquerque Rail Yard Master Development Plan. June.









Source(s): USGS, Albuquerque West Quadrangle, 1996

Figure 1 Site Location

Additional Characterization, Voluntary Remediation Program Activities, Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico

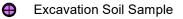




- Soil Boring Sample (2016)
- Soil Boring/Soil Gas Sample (2016)
- Monitoring Well
- Soil Boring Sample
- Surface Soil Sample

Legend

Soil Vapor Monitoring Location



- Field Screening Only
- Subslab Soil Sample
- Sump
- Test Pit Sample
- Water Supply Well
- Wood Floor Sample

Monitoring Well; not located

Site Feature
Parcel Boundary and ID
Property Boundary

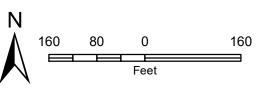


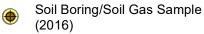
Figure 2a Site Plan, Parcels

Additional Characterization, Voluntary Remediation Program Activities, Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico



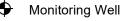


Subslab Soil Vapor Sample (2016)



Soil Boring Sample

Legend



Surface Soil Sample



Property Boundary Parcel 7 Boundary

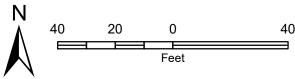


Figure 2b Parcel 7 2016 Sub-Slab Soil Vapor Sample Locations Additional Characterization,

Voluntary Remediation Program Activities,

Albuquerque Rail Yards, Albuquerque,

Source(s): Aerial – BERNCO GIS website, dated 2014.



TABLE 1

Laboratory Analytical Results - Sub-Slab Soil Vapor

Parcel 7 Additional Site Characterization Report

City of Albuquerque Rail Yards, Albuquerque, New Mexico

			VOCs (μg/m³) ¹													
Soil Vapor ID	Collection Date	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dioxane	2-Methylnaphthalene	Benzene	Carbon Tetrachloride	Ethylbenzene	Naphthalene	o-Xylene	p&m-Xylene	Tetrachloroethene	Toluene	EDB
NMED	VISLs ^a	52,100	NE	NE	NE	NE	NE	36	46.8	112	8.26	1040	1040	417	52,100	0.468
EPA	VISL ^b	170,000	240	NE	NE	190	NE	120	160	370	28	3500	3500	1400	170,000	1.6
SV-07-01	11/2/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2.5	<10	<10	<10	<10	<10
SV-07-02	11/2/2016	17.4	<10	<10	1013.24 E	<10	<10	11.89	<10	14.41	<2.5	<10	39.65	<10	126.72	<10
SV-07-03	11/2/2016	<10	<10	<10	1127.89 E	12.68	<10	10.85	<10	14.04	<2.5	<10	37.35	<10	93.8	<10
SV-07-04	11/2/2016	<10	<10	<10	1109.66 E	<10	<10	<10	<10	16.45	<2.5	10.91	43.8	<10	121.69	<10

Notes:

Bold red text indicates values or RLs in excess of one of the VISLs

For select samples the RL did not meet NMED or EPA VISL; therefore, analytical laboratory reported down to MDL

a = New Mexico Environment Department (NMED) VISLs from Table A-3 (NMED, 2015) unless otherwise noted

b = Calculated from EPA VISL Calculator (EPA, 2016) because the VISL was not available from NMED

1 = Analyzed by EPA Method TO-17

 μ g/m³ = micrograms per cubic meter EPA = U.S. Environmental Protection Agency

MDL = method detection limit

NE = None Established

NMED = New Mexico Environment Department

RL = Reporting Limit

VISL = Vapor Intrusion Screening Level

VOCs = volatile organic compounds



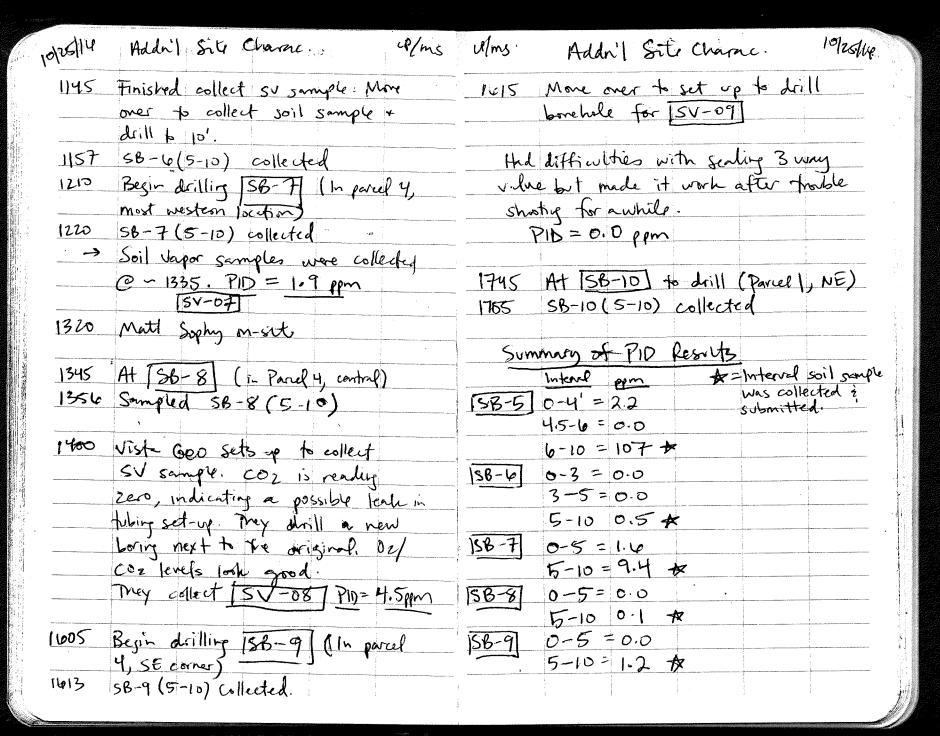
APPENDIX A Field Notes and Field Forms

3/2/12	10/19/2016 One Call Utility Marking MJS
Deconneabladder pump with	
liquinox ana DI. Switchedout	1000 M. Sophy on-site in Northern Porking Cot Weathers Sunny, 60's
bladder.	TGSM- Noten for traffic
· 0915 moved to MW-03 · Started pumping at 0942 Water Sitty at first, black	Objectin: OMark "Spel" on restar boundary of Railyard: 1st 2nd Street OContact One-Call Utility Check
'Minimal drawdown obsowed Pumping at	(3) Condinate Site access between One Call + COA.
·Collected Sample @ 1004	1015 Meet Justin D. Schara, E.I. from
tinal readings	Him Mesa Consulting Group.
DH= 130 1	His company 15 designing strum drain
Tempoc= 17.89 WITHCL	System Ob the Kalland
PC45/0n= 567 82665L	They have U.G. Worky My, We can
ORPMY = -88.4 8015	contact H.M Surveyor Orck Cala
Tagged Diwa HW-Em SB-09	For none inta
Drw= 29.69 noware detected	1115 Couplete Spot Markey " Spor 10/19" on N/S Boundary of 131/2nd Stand
Pulled well and backfulled with	11) Complete Sport of 131/2 nd Start
bentonite	of Raihard.
· Cleanup. Off-site 1020	CII One Cell, Ticked #16 oc 190394

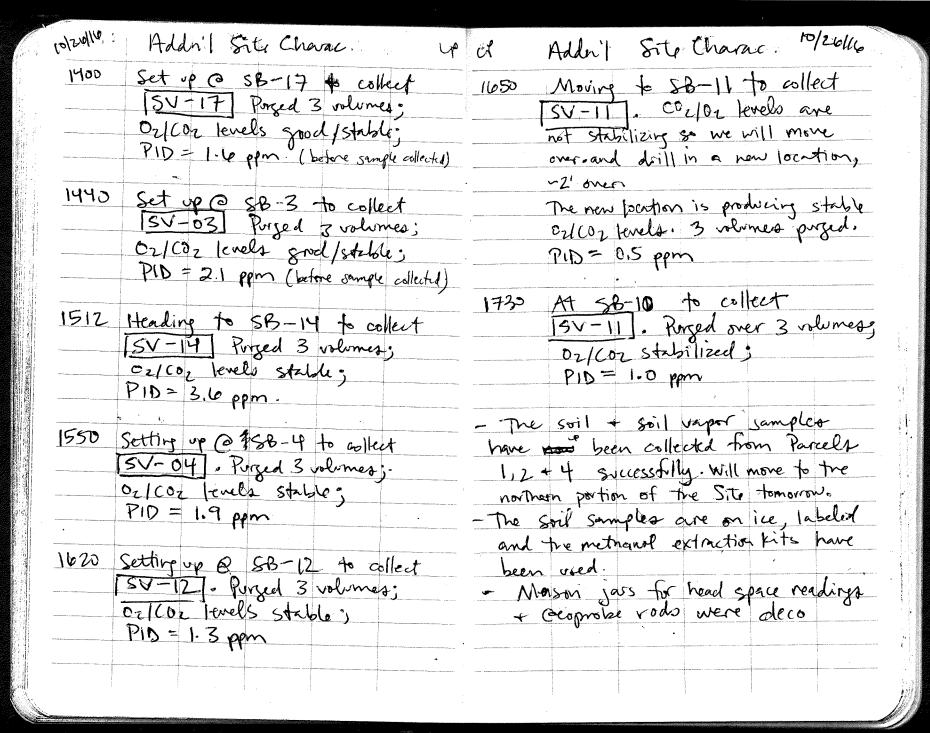
10/19/2016	One Call Utility Marking	MS	10/24	1/2016	Addis Ste (handerta 10	· /	MS
	11 will issue 10-Dg wo						and the second state of th	
	my expires cos Nos		0050	M. Sol	y on-sile	to me	ed u/	Devid
	notify or cell 2 Brains		And the second s	Che	Loweth Envi	connecto((DCC)	<u>t</u>
befor	Nov 4 for Parmy tx1	L Six		C.L	of Albaje	race (COA	1) reporte	intatives
V+.hl	a Locator to Complete	L is le		renz	din Asha	1 4/ ead	[cot	
by	7 Locator to Complete 10/21/2016)	dry Ashesla			
	(man)	And Andrew Company of the Company of	0920	Met	Wheels Mise	um (cu	esentation	
1110 Un	tak TTCasa K Ma	-in la		1000	Wheels Muse			
7	tak J. Trang, E. Mar			Name	all 550. office 243	5066		
1135 M. S	Scale off site	THE PARTY OF THE P	Market Market Market Control of the		occ. 743	-6765		
	ophy off. site	The District of the Control of the C		</td <td>all ozen c</td> <td>Land Lach</td> <td>ok mu</td> <td>cava</td>	all ozen c	Land Lach	ok mu	cava
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			the second second second second second second second	0000	DCG ;) J		
				MaH	Butkus -	· pA		
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i		:	and the second s		Cell: (305)	507-00	712	
1								and the same of th
1			pro-	Miz	Level Nie me	- DCE	•	COMM.
	1				all (505)	401-890	<i>9</i> 5	The second secon
MANAGE TO THE STATE OF THE STAT	M		A THE RESIDENCE OF STREET OF			;		A second
1	11		0930	Sile	tour u/	M.H Butk	<u> </u>	
:			processor and approximation of the second	0 /	They besworth	weld 1	ike to	visit/sample
			A A comment of the state of the	<.L.	requiry lit	Cl fist.	Rether Al	u- vst
		**************************************	and delivery and the second section of the second section of	ر ۱۰۰۰	alla pera	al. \dil	checle	IF OK
:	The second secon		promoted to the state of the st	- f°	cally for Ma	cllott	Tracy.	
		NAME OF THE PARTY	Company of the Association Company					and the same of th

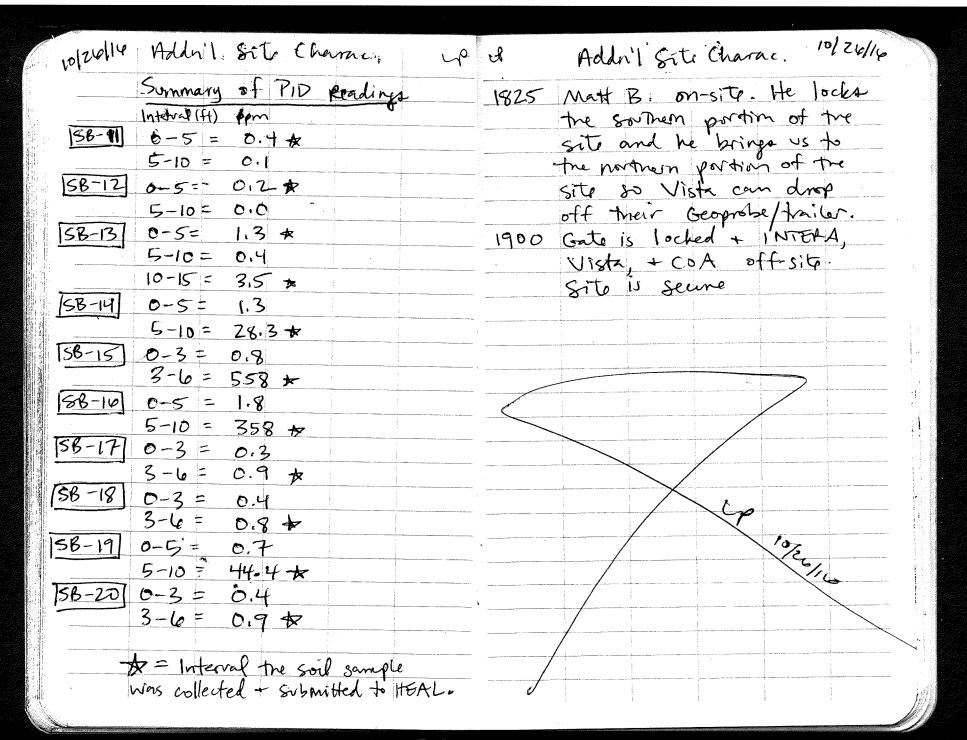
MILL OF CL	4/ms Addn'l Site Charac. 10/24/46
10/24/16 Addr'l Site Charac. Nis	Sunnay of PID results Sample Submitter
	(SB-1) = 0-4=3402
1000 M Soph off sik to INTERA Aby	9-10 = 788 SB-1 (9-10) 9-10 = 710,000 @1510
office to mb for Soil Soupling	9-10-710,000 (81510
	58-23 0-4= 921
1300 Lynde on-site @ wheels Museum	4-8.5 = 874 58-2 (8.5-10)
and meet Visla drillers.	8.5-10 = >9799 / @1535
They are getting prepped.	5B-3 · 0-3,5 = 33.4
	200 115 - 200
lobjetives Stast drilling in parcel	4.5-7= 55.4
1 or 2. Collect Soil + vapor	815-10 = 479
Samples	[5B-4] b-4 = 51.8
13	4-10 = 3.7 10-12 = 227
1315 Controt H+S meeting	10-12 = 227 / @ 1630
1925 Walk around farels 1+2	12-15 = 156.
to identify site boundary	· Soil samples will be submitted to HEAL
and proposed locations.	for vocs (8240B), PAHs (8310) TPH (
	GRO, DRO MRO via 8015) + metala (antimony
1400 Vista begins inhading geographe.	arsemic, chromium, iron, lead, many encue;
Lalibrate FID Min. Rue (INTERS)	traction in (colo)
1420 Gleen - Matt on-site	· We used The heated head space method to
1445 Byin setting up @ 88-1	· collect PID readings
(Parcel 1, 56 arner)	· Mason jurs + tools were deconned between
	borings. Geophybe equip as well.
1645 Finished collecting sample @ SB-4.	1650 most from the city on-site to lock gate
Have collected soil simples from	1705 INTERA - geo Vista geo officito.
5B-Z + SB-3 as well.	tell the state of
	प्र 19m/14

10/25/14 Addit Site Characterisation up	d. Addril Site Characterization 10/25/16
October 25, 2014.	collecting SV samples in Parcel 4 since we know the broations.
Lynd Price	since we know the biostons.
Clardy, little rain in e.m (50's); partly sunny pm	
(7ơs)	0955 Begin marking boring locations in
	09.55 Begin marking boring bocations in Burnel 4.
0720 Lynds on-site	
0725 Vista Geo on-site	to collect soil unper Sample @ 5'bga.
0740 Matt Butless from COA on-sit	to collect soil unpor Sample @ 5'bga.
to unlock the gate.	
	1025 Jim from INTERA on site and how
Samples from Percels 1 + 4. Collect soil samples from Those Devels too.	new PID. I finish doing the head
samples from Percels 1 + 4.	space readings and truy are more
Collect soil samples from Those	accorate. SB-5 (6-10) is collected @0840
pareels too.	@0840
	1045 JIM offsite. Vista did not get
0755 Conduct Has meeting is go over	a good sent on the first boring so
espectives. (N PII)	they are moving over to dill again to
0810 Walk site to spray paint The	5' and will try to set up again.
0810 Walk site to spray paint The next 3 boring locations	
	vista collects [SV-06](2 surbout
(located in Percel 1, SE parting)	tubes). They purge 3 volumes before
(located in Percel 1, SE parting)	collecting sample + verily 02/02 is
·	Stable. PID value is measured after
PID is not working properly so Jih	puzing and before simple collection.
was called + he is brigging a new	PID=1-Tppm
PID to the site. We will start	

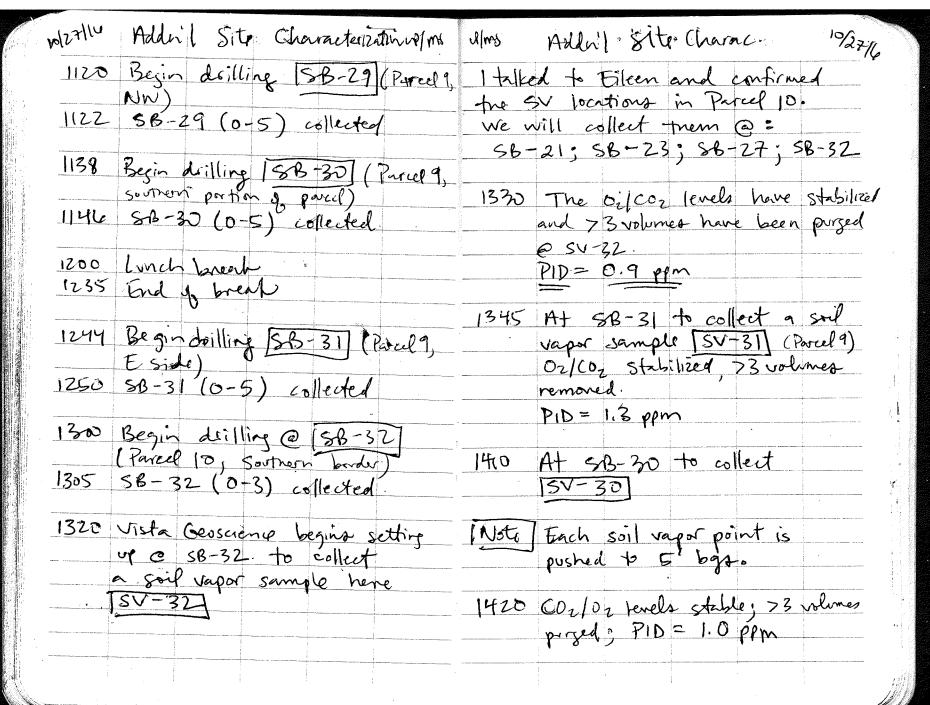


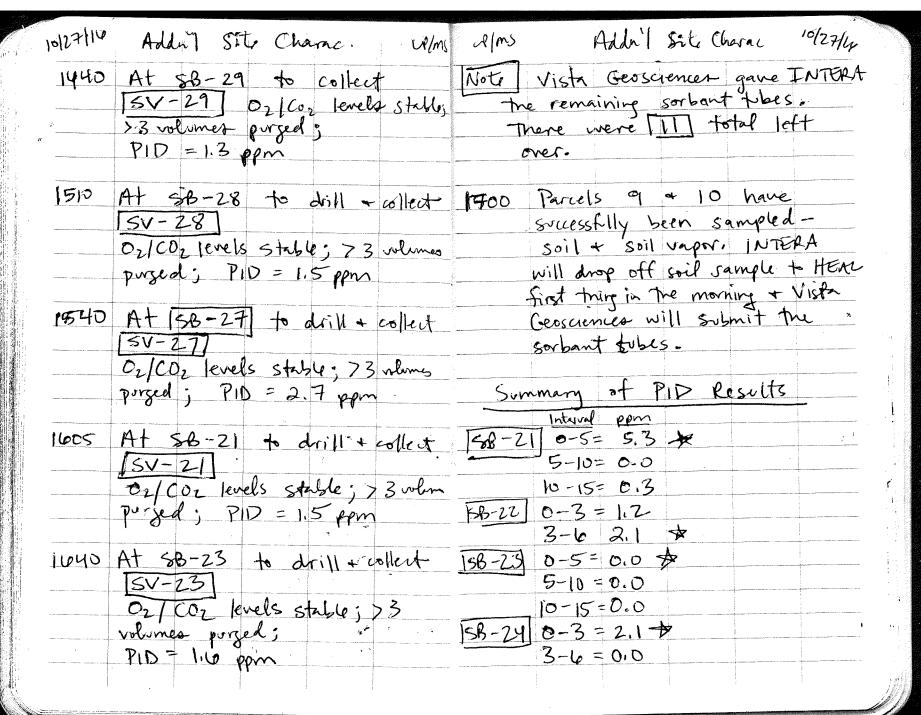
Polselly	Addril Site Charac. el	A .	Addr'd Site Charac 10/2014
0923	Starting to drill@ SB-13	1214	Drilling [SB-19] (Parcel 2, 5 central) Sampled SB-19 (5-10)
0930	(Parcel 1, East sike SB-13 (10-15) Collected		Sampled SB-19 (5-10)
0958		1225	Drilling [SB-20] (Parcel 2, middle
1003	(Parcel 2, NE corner) SB-14 (5-18) Collected	1232	of the Southern border) Sampled SB-20 (3-6)
1029	Deilling [SB-15] (Pertal 2,	1300	Vista Gec begins settling up @
1035	SW of SB-14) SB-15 (3-6) collected	and the control of th	Oz/Coz Vevelo stable + Z sorbent
+ 055			tubes are filled [PID = 2.9 pm]
1055	Drilling St-16 (Parcel 2)	Marine 1 January Victoria and the second sec	SV-16 collected
	E of platform[on east side]) SB-14 (5-10) collected		
1106	56-16 (5-10) collected	1315	Discuss w/ Fileen about SV sample
	7211: 100 -7 (2) 20		locations and instead of collecting
[155	Drilling SB-17 (Parcel 2,	<u> </u>	them where we saw the highest PIO
uda	SB-17(3-4) collected	¥.3	valuer, we decide to spread them
1140	315-11(5-4) collected		across the footprint of the proposed
115-2	2011 100 101 (2)	:	development in parcels 1 - 2. (brildings
1152	Drilling [SB-18] (Purul 2) W of platform + south & SB-17)		antfor pasking structures)
	M 8 platform + south & SB-17)		
		* 15	Decide to collect them from:
100	Sampled SB-18 (3-6)	Parcel	
			SB-12 SB-3; SB-14 SB-14;
\ \		SB-10 SB-11	9
		. 30 10	

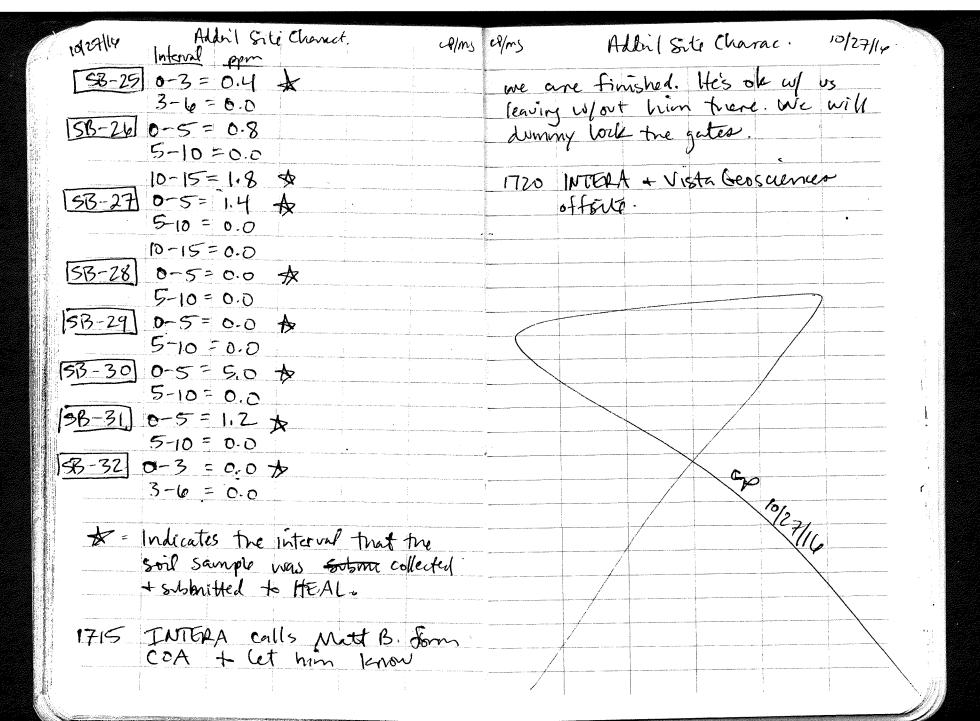




10/27/14 Addit Site Charace. 4/ms	UP/ms	Addn't Site Charac 19/27/14
Octobes 27, 2016 Sunny, 40's a.m + 70's p.m, breezy	0830	Besic drilling @ [813-22] (Parce 10, SE)
Lynde Price - Mitt Sophy	0835	SB-22 (3-6) collected
0725 Matt - Lynde on-site meets	0853	Begin drilling @ [SB-23] (Parcel 10)
Wish Geo + MattB. from the city. Matt B opens the gates on the north side of the property for us,	0858	Begin drilling @ [SB-23] (Parcel 10) central) SB-23 (O-5) collected.
90 over today's objectives.	0920	Begin drilling 188-24 (Parcel 10, SW corner) SB-24(0-5) collected
Objectives collect all soil samples from Section 9 +10 and	0937	Begin drilling ISB-25] (Parcel 10,
Samples as we can fine	0945	Begin drilling ISB-25] (Parcel 10, central N) SB-25(0-3) collectes
mose locations.		Begin drilling 58-24 (Parcel 10)
0755 Cilibrate the Mini Race PID (Kentaf from ESP) w/ Isobutylene 100 pm	1002	SB-26(10-15) collected
	1035	Begin drilling 15B-27 (Parul 10,
0810 Regin disilling at [SB-2] (Parut	1038	10 VV
0815 Sample collected 8B-21 (0-5)	1055	Begin Lilling SB-28 [Parcel 98, NE corner)
	1057	SB-28(0-5) collected

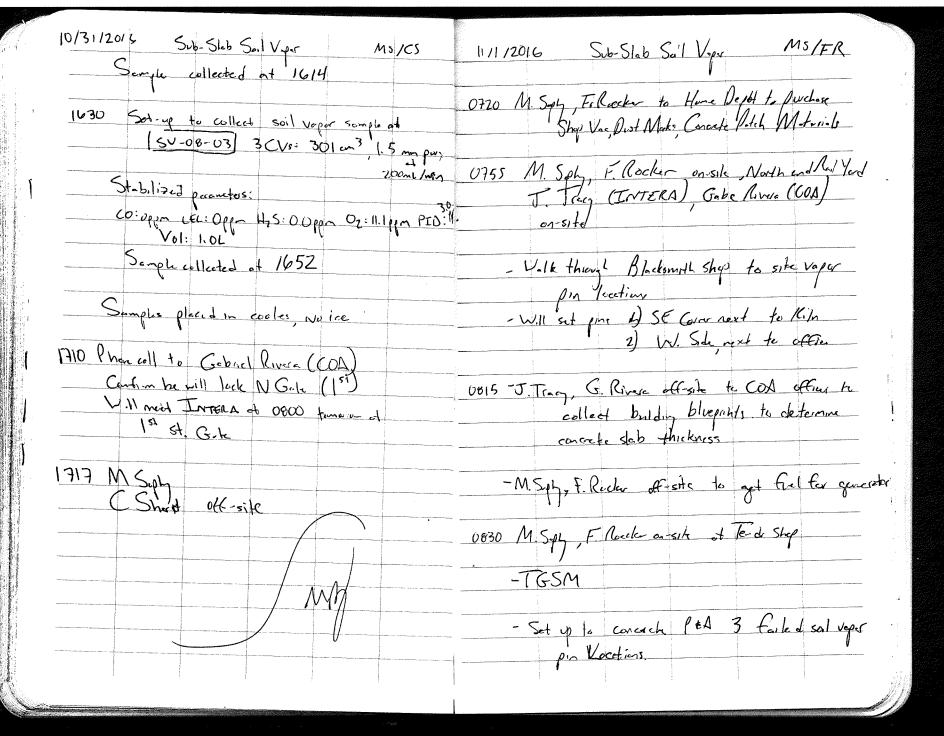






10/31/2016 Subslas Sal Vyor Mosses	10/31/2016 Sub-51-6 Soi /V-pr M5/C5
750 M Soph (Shoot on-sile Meet Gabriel (COA) to open N. Galar	1015 Unable to get through slab in train sunf. At least 16-men thick. Scaphater
Sabriel is pant of contact the will	Centert & Marcillo to let her know situation. She says to go attempt for install in batarian.
open/close g. lus	1114 Successfully instal fixed vapor pin
Objective: Install 6 voper pins in Machine Stry Callest 6 sub-sleb vaper scapples from	Broke through concerte sleb into sand @ 11" bys Located in 312 bay from mest in Dorber Room SV-8-1
Weather: Cher, 60's	Clark gers to scort additional upos pro locations
0830 Mule 6x vope per locations	1155 Install Vapor Pin HZ In first trans surp from nest side of building SV-8-2
These certifications of a Missella	
0845 Set up to mot. 11 Vope for SV-5-1 1 1 1 Sn) place Surplet	(225 Attempt to drall through slab at grand (Surface not in a train sump. Next to entince to Tender Ship, east slide
0930 First Laction, slab to thick for	of desire Const pentile Sl-b, < 16" thick
More North to Train Boy, ~ 3' deep Will test w/ sm.ll bit first	Linch

10/31/2016 Sub-Slat Soil Vager 10/31/2016 Sub-Slop Sal Vog-M5/C5 1400 Set up to instill Vapor pin in Northern End of Flew Shop 1320 Phone coll of Eiken - Concrete coing company will be on-site 1415 Instill Vg- Pin SV-8-3 tempion at 1200 58 core but is 5 r'z" be conside slab (bys) 222 long it Slab is desper re Drill veper well 16th bas will order a longer bit. Mark Location of Assor on Well (See Photos) - Corn company has 1-12" con to lost stab Ahrekuss it we can't 1430 Solup to install repor pin in Contal - Carberel (COA) to next us of Flew Shop Wheels Museum of 0500 o- Wednesday. 14-12" of slab corcete bas - Cured plan, install 2x vapes Mark Cocetion of Allow on Flow (See Photos) pm in Tender House 1330 Sot of to unstill Vopo Pin 1500 Set up to collect soil veger sample at SV-18-94 Concete slab < 16" Phone coll to John tontone (Vista Grosciences) Also, high tarque of bottom, possible deflerent confirm to pass I of our though 1345 Set up to install Vya pin new to office along E. Wall of Terdershop. <16" Crush Slab Calibrate PTD, w/ 100 pp. Isoluty lenges CGT w/ Oz 18pm CO 10pm Hzs: 25pm High torque as bottom SV0804 3CV's - 300 cm3, 1.5mm e zovadni Stabilized Pormetos: CO. Oppor CEC: Opport Hz5: Opport Oz: 6:81pm PTD= 3.2ppm, Voli 0.9c

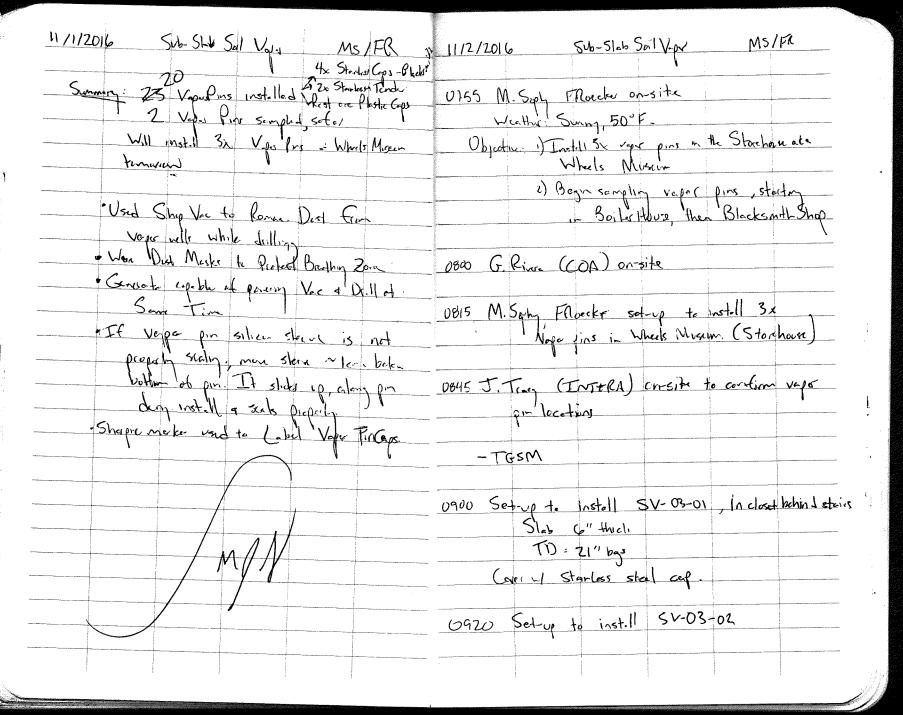


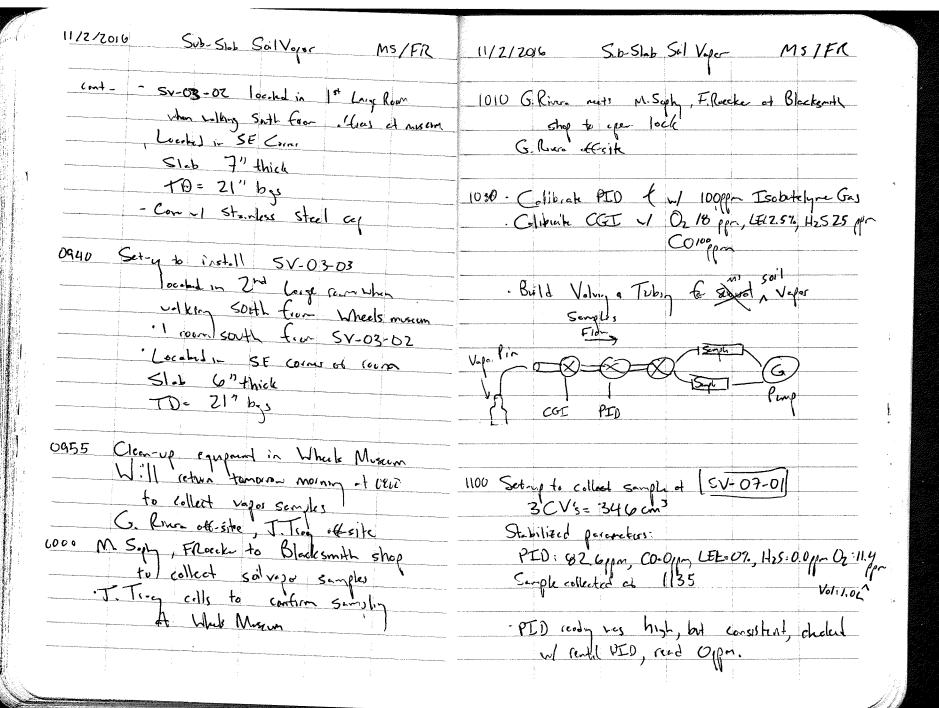
11/1/2016	Sub-51-6 S. IVpr	MS/AR	ll /112016	Sub-Sl.b Soil Vage	M5/FR
0115	Petern, complete Take photos to document jub.		1020 Set-up t	o install vaga pins	in Blackmith Speps shell Archange cap.
	Trace, G. Ribra ansite. CE Heun ansila		SI-b Well	5-12" thick TO - 18" by	
			1040 - J. Trag	onsite al Blacksmith	shep.
	It needs to cub lock on poulding to continue CBP, Ac		1 Dlacks	morked 4 vipus pin mith shop us to split distance	
	NTERA looking for balt cutter open powerhouse.	is to	p.ldr thick	us to split distance location in buildings, Executive else, Slab	who slobis
	we open up gale on south side.		1050 J. Tray	M. S. J. F. Rocher =	elk through to
^	Photos to decreed work- 2x		F. Rocc	ke cuts lock in to	whom Powhere
	The state of the s		DCE U	in to contex power hos P + Asbeets	I key in Powhere
- \\ - \\	o determine Slob theknest in Block itt mark voper in lacetions for M instyll this DM	Sephy/FRoch	1		
	WELL WATER		Ma -Mot	thre she vepes pin	locations.

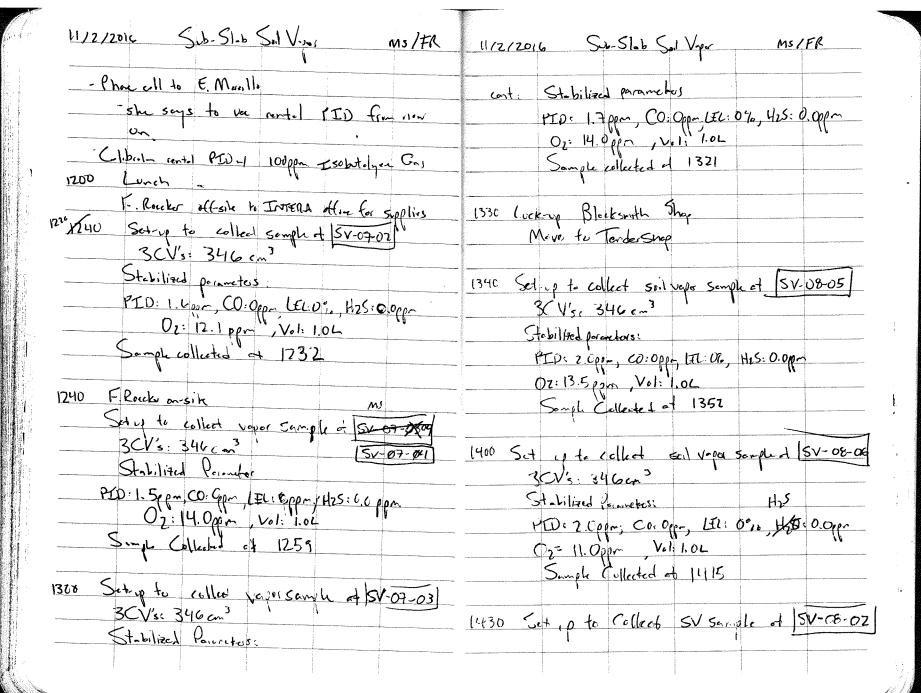
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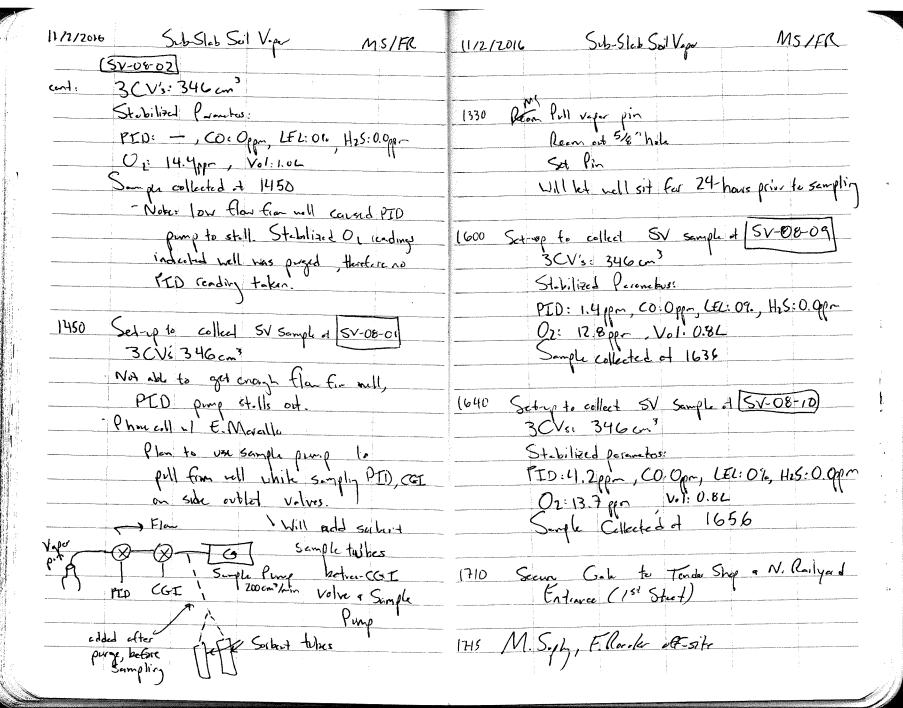
11/1/201	6 Sub-SI-bs	Soil Vep-1	MS/FR	ر	11/1/201	c Su	-51cb S	Foll Vep-	Л	15/FR
					1345 (ocrete	Com	sompey an	5; 6-	
<u> </u>	ples / 7/8" b	t to 6'	below sta	Ь		Concrete Filacolor Mechanic	M. Saly	Het Ca	CC A	
				影子		Mechine	Shall			
1145	trag M. Sph te mock /4	FiRoeck	color Boiler	COA.						
	to make 14	x Vener	and location	^!		Phen cell	×.// €	Maulle		•
						-if ve	in et	eficile F	Tack + I	llin
1200 J	Tran M. Sah	F Rock	ente	*		Stell	6 100	, monitor	ing nells	
	Trag M. Sph.)	
	- Mrk 2	Vener	Port ction	Signatura (1400 C	CO Sa	of to do	11 5/8/	forces	A STATE OF THE STA
1			I. LEGIND	N		SV-F	الأي الأي	b 6"thic	k	and the second s
1230 Lune	h			<u>-</u>			Z SI.			
	1				A SALES OF THE SAL					
1240 5	trup to , astal	I SV-	07-07		(430 (rcc Sile	s to al	al des	holes no	con
	SI-3, 7"	thick	<u> </u>		(90)	CC Silk	Notes.		,	
	Vegor and TD			****		1=N	is allow	concorna	about	contemnt
***************************************		<u> </u>			and the second s		the vel	007.33 11		* .
1250 Sd.	y to install	54-07-6	03	_			vice year.			
	Sleb thickness					51/-	05-01	51.L 6'	thick	
•	10:21" bgs				100000000000000000000000000000000000000	SV-	05-07	Slab C	thick	
	J		•			5\/_	05 03	Slab 6"	thick	
1315 Sc	to inst.11	51/-07-	04			SV-	05-04	51ab 6"	thick	
	Sleb thickness	13"						Slab 5"		1
	TO = 21" bg	5		700				5166 5'		1
	, 5	-	!							and the second s
										Proceedings (1998)
					and the second s					
		:	i			ALL	1	1		M.

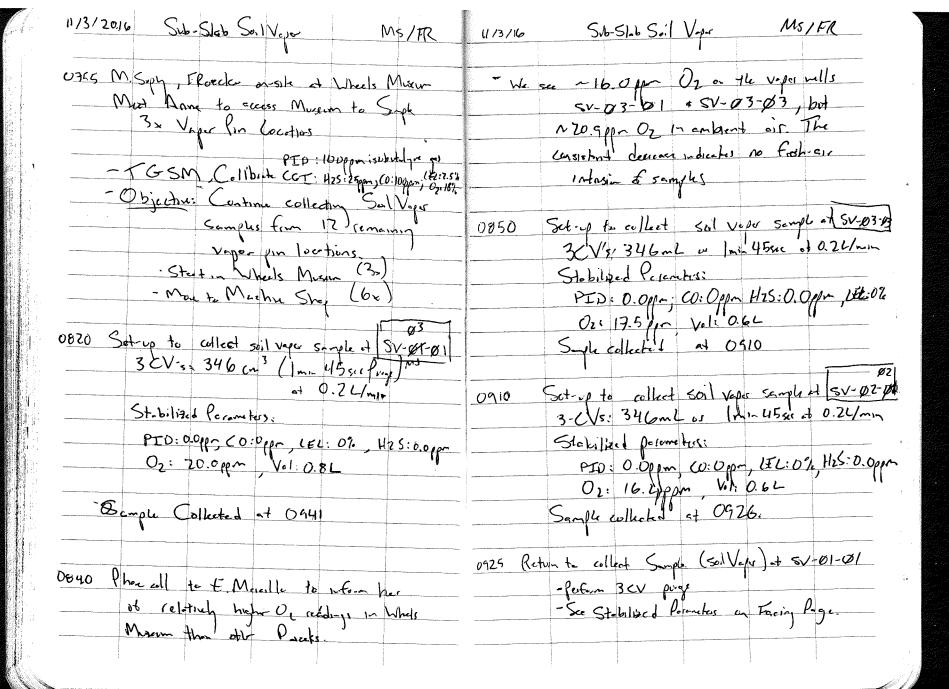
11/11/2016 Sub-Slab Sal V-AL MSIFR 11/1/2016 Sub-Slab Sail Vapor M5/FK M - SV-05-05 Shb=12", TD=21"bgs 1530 M. Soph takes acc cran to Boluhous M. SV-05-06 Slab= 12", TD= 21" bgs to dritime Hanne Dolling 5/8" holes F. Roccle cont. dully 1-1/2" top hoh - Wells have stainless stool caps since for SV-05-01-06 wells building me, get new not (prevent damage) - Set Vapor pins 5V-05-01 TD= 21" by 1715 M. Soph, F. Roccher set-up to doil 1-12" hole 54-05-02 TD: 211/6-5 - Con - 1 Black Plaste 54-05-03 TD = 21"162 in Buleshop a set vapor line 54-05-04 cops, Label MS . SV-95-07 SILD= 6" TD= 21" bes TU: 21167 -1 Black Shape SV-05-05 Sleb= 6" TD= Z1" by M9 . SV-05 08 TO 21"631 5V-05-06 MI . SV-85-09 Slab=6" TO= 21" by TD-71" bys MI = 5V-05-10 51-b= 6" 10= 21" bas - Plan to let vapor pins equilibrate at least 24-hours before sampling. 1730 G. River (COA) steps by Balesthop to let is know the Souther Radged Gotes are 1605 M. Soph F. Roecker to Bother roun to check on CCC Crew Sewa indedy dow on Parhass, - He asks us to Lade 1st Sheet (North) get prints when we bose 1620 CC coon has drilled . 4, 50" wells in Balashap - Plan to neet at Wheels museum tempera of 0600 · 2x 5/8' wells n Tondo Horse 1745 M. Suly F- Roack ettsk 1630 CC crow eff-site CIl to J. Tray Be update - Plan to Sed Uper pris in Wheels Museum in AM 1640 M. Sophy Florek Sub-up to deall 11-12" hade in wells in Tender House and Set V-pur Pins. simple in PM or 24 hours later.











11/3/16 Sub SLA SIN Vigor M3/FR	11/3/16 Sub-Slab Soil Vapor	MS/FR
1010 Med of G. Riva, he opens N. Goh (15+5+)	1115 Set-up to collect soil vapor sample at	
1015 Scort for Monitory wells, located:	- reased well yesterday to check for since the law Flow stelled out the	LPTD pump-
MV-3	- se-set pin v/ new silicon sleeve. 3CV's: 346mL or lmin 45 see at Stabilized Parametes	
Could not local. MW-09 (possidy buried)	PED: 1.5pm, CO: Opm, LEL: 076 Oz: 15.5ppm, Vol: 0.8L	H25; 0.0gm
1020 Set-up to Collect SV sample at SV-08-07 3CVs: 346ml or I min 45sec project 0.7L/min St-bilited Perenctus:	Sample collected of: 1170 1131	
150:0.9 pm, CO: Oppon CEL 01. 14,5:0.0 pm 02: 7.8 pm, Vol: 0.6L	1200 M. Soph, F. Aucker Checking for M. Lell's on South side of	١ / ا
Sample Collected ot, 1041	- (ccoled: MW-02, rise bend, PVC bend MW-02, possibly muster-kd form d well riser (sen	
3CV's: 346ml or Imin 45 sec purp at 0.22/min	MW-03	
rg PID: 05pm, CO: Opm, LEL: D4. Hist coppin	MW-04 MW-05	
OZ: 3.6 pp. , Vol: O.6L	1230 Lunch in Machin Shop 1245 Phone cell w/ E Marallo	
Shoppe Collected at: 1105	1245 Phone cell w/ E Marallo	

11/3/16	Sub-Slap Soul Vega	MS/FR	11/3/16	Sub-Slab Soil Vapor	MS/FR
count: Phon M. S.	cell of E. Marcille oh FRocker to conduct G A MW's of Railyard Tomos	sw sampling		t up to collect soil vo	
E. Mer	allo will colon this V G. B	on Livera (COA)		CV's: 346ml or lingin 45 Stabilized Person tess	
1300 Sct-vp +	collect soil vous sample	at [SV-05-0]		2 10:07pm, CO: gr LEL: U	HIS COMP
31-40/100	34 cml, Imm 45 sec purge and Parameters			Simple Collected of 1410	
01: 1	Collected - + 1322			M's takest In collect soil vapor	
F Roeches	act up to flux & Alberdon wells dilled in mad	2×		Purp & 3min, Will. OL	Exc priga et 0.24 L/min
W	Concrete Mix			Stabilized Parametus: PID:09 PCO:01/2 LEL:07. Or. O. Oppor	H25:0.0 pp
3CV3	collect Spil Vapor simple a : 346mL, Imin 45 sec	1 SV-05-02	** Chif diagnostic riphropated in	South offeeted at 1428	
PID:	d Porsonelius: 0 Appm, CO: Oppm HZ5:0.0	PH (E1:0%	(435 Se	Tup to collect Soil Voya Samp 3CV's: 346ml or Irain St. billied Peramous	4551. prop of 0.71/2
	Collected et 1342			PID: D. gar, CO: Upon, LEL: Or: O. oppon, Vol: 0.64	0%, H25, v.0ppm
				Sample Collected at 1442	

1)/3/16 S.b. SILL Sil Veger MS/FR	11/3/16 Sub-Slab Soil Vapor MS/FR
	1530 Text to E. Morallo Trag conting
1450 Set up to collect soil value small of	that Sub-Slab Sall Vept Sanglin
1450 Set up to collect soil vojor simple of	1530 Text to E. Moralle Strag confirm that Sub-Slab Sall Vept Sengling 13 complete
3 CV's: 346ml = 1mm 45 sec prix at 0.2 C/mm rate	
at 0.2 C/m cate	1535 Phone cell to G. Rivera (COA) to
Stabilited Parameters	a franch markets
PID:09/10 (0: 000 LEL:0%)	M. Bitter (COA) will open golds at
175 C DOOC (72) Seen 0 (1)	1451 (N.S. de) to SIN INTERA
Somple Collected at 1506	access for ON Sampling.
1500 Sort out samples by parcel #	1540 M. Sophy, Flocks efficite
10 x Porcal Ste Boile Shop Trade Shop Fle-Shop	
SV-88-61 SV-8806	Symmen:
SV-188-87 SV-188-87	· Installed 23x vapor pms to collect sub-sled
5v-08-08 5v-08-01 5v-08-08	Soil Vapa Semples
SV-016-02 =	- Collected 23× 5011 velor Samples in 4 parcel
SV-06-05 SV-08-10	locations at the carlysed-1st on facing page.
6x Porcel 5: Machine Shap	· Smale (sorbent tubes) sampled at 200 cm3 from for
SV-05-05	5 min (14)
3x P 13 (11)	· Test for TO-17 Sulgys
3x Paral B Stochover (Wheels Missym)	- / mg/
SV-03-01, 5V-03-02 -1-03-03 4x Parcel 7, Blocksmith Shop	
SV-07-01 SV-07-03	
SV-07-02 SV-07-04	

::

11/4/16 G	W Samplay	MS/FR	11/4/16		GW S.	مالم.	M5/	FTC
				11	ft bTOCI		<u> </u>	- Andrews
0755 M Soph	F. Roccky Un-SI	e	WellID	DTP	DTW	DTB	Notes	
N. G'-1	F. Roccky On-51	or sile of MW. 89	MW-09				Not locate	4
			MW-Ø8		26.16	46.11	0839	T-Plug OK
-TGSM	\		MW-06		29.44	49.28	0832; 2";	J-Plug OK
			MW-07		26.74	44.85	0847; Z";	
- Weethr.	orcenst, rainy 5	5°F.	MW-02		19.10	41.34	1245; 2";1	eeds New Jiffy
- Objectne:	Deng locik	9 MWs	MW-01		22.65	44.16	1002;2";	FPIUS OK
_	2) Gauge DTW DTT	1 1	MW-83	_	24.33	44.75	1008; 2";	-
	3) Gw Semple for 1	10C's 8260	MW-04		25.37	44.48	1015; 2";	
11.00		DB 504.1	MW-05		26.52	46.16	1024; 2"; 1	Veeds J. Plus
0405 M. But kus	(coa) on site.							
Ac ~110	pen south Gate A	eer Wheels musum	0850	· Ce-plete	d gargins) of V	nells on no	rth side
for &	su compling.			A 211	C.			
***************************************	, 3			-Plan to	collect	GW samp	les of n. si	de nells
0010 . Filocke	attempts to locale	mw- 09		to sta	dear of	film or	en.	
i -	or using metal detector	i i i						
*	for 20 min, no m	ell found	0855	Set-up	to Collec	+ GW	Sample at	MW-07)
'lm -	not gary / Sample	this well			9.2 201			
- Colinoid Oa	eleta pec(150) Water Quel	Mehr Spec (o. d: 1413		· Stabil	Hed Peran	neters:	- 0	
0830 - Begin go	wying DTV/DTB	using property "		p#:4	1.411 ; Tem	e: 18.6°C	; Spectord:	829. Zus-cn
, ,	Hammated Solonist Oil	, , , , ,		7	Vol	9.3 gal		
	sole + Envio Supply 1	Noter Level Meter		Serry	le Collecte	ed at	0912	
- W:11' G	my cells on "N. 5	ide of Sile,						
	Sample to get o	at of way	- Constitution of the Cons					
ot	Commy crew.		N. C. C. Constant and C.				-	1
	-							

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11/2/16 CW Sompling MS/FR	11/8/16 G-W Samply MS/FR	
0920 Setup to collect GW Sample at MN-06 .3CV's: 114 gol .Stab. Parameters:	1200 More to South Side of 51/4 Lunch	
Temp: 17.9°C; pH: 7.28; Spec Cond: 803.2ms-cm Vol: 11.53-1 - Sample collected at 0947	1215 MW-02 rise pipe is bent a conent skirt is eticking up Break off concrete around riser	-
0950 Will head to south side of site to gauge MW's, specifically to check casing diameters. If any 4" rulls, we will get larger bankers from office	Remove rises. Cut PVC cosing 22") to ground level. INTERA will replace surface completion at a 1-tas dale (E.Marcillo)	
1030 - Gauging of all wells complete except MW-02. This well casing riew is damaged We will return leter today to repair, access, gauge, Sample t	- Set up to collect gave weter kevel in MW- - Set up to collect GW sample at MW-02) - 3 CV s: 11. 4 gal	ψZ
Sample t - M. Sophy F. Roecker off-eite to got ice 1045 Set-up to collect GW Sample of [MW-08]	- St. Wilted perantics: Temp. 18.5°C, pH: 7.74, 5xc. Cond: 667. Vol: 12.0gil Sample collected at 1510	2 jus-
· SCVs: 39.6 gal · Stab. Decembers: Temp: 18.8°C, p.H. 7.17; Spec Cond. 951.9 processor Vol: 40gal	1315 Set up to collect GW sample at [MW-0]] • 3cV's: 11.1 g-1 • Stabilized perameters: The 255 and 247: Some Coal 596 Own	-
Simple collected et 1145	Temp: 18.7°C, pH: 7.42; Spec Cond: 996.0p Vol: 11.5 gal Sample collected at 1335	 i2_6\

11/8/16 GW Sampling MS/FR	11/2/16 GW Sarpling	MS/FR
1340 Set p to collect GW samph of [MW-13] 3CV's: 10.5g.l Stabilized parameters: Temp: 15.0°C, pH: 7.31 Spec Good: 671.2 Mgs.	-Notes: MW-08 has 4" casing and will not propular close due to and J-Plug-Recommend termoning	PVC cashy
Vol: 11.0 gol Sample collected of 1402 1410 Set up to collect GW sample of [MW-BC]] · 3CV's: 9.6 gol · Stabilized parametes: pH: 7.18, Temp: 18.6°C, Spec Cond. 936.5µsam Vol: 10.5g-1	MW-02 meds new surface comes well is awanth angood as PV cut -1ft bys J Plug is to place to prevent debris/well well. Left 7- Parking comes mell for protection.	cressing pad interest of the contents of the c
Sample collected at 1427. 1435 Set up to collect GW sample at MVV-005 3CV's: 9.9 g-1 St-Lilized parameters: Timp: 10.6°C, ptt: 7.05; Spec Cond. 819.5 person Vol: 11.0901	1515 M. Sopy, FRocelle effective. Some. · Cocoted & of & MW's (MV-099) · Gauged Flud levels (total depth in	missing) B wells
Voli 11.0gel Sample collected of 1500 1510 Decon .11 (quipmit. Plea Gru Samples in Cooker/Tee.	- Sempled & wells for grands -8260 (VOC's) - un filtered -5041 (FDB) - unfiltered Prigid nells 3x Casin Volume Stabilization of Water Oxide 1 before sampling.	1 confined

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13/16	GW San	pla	MS/FR		A A A TO THE RESIDENCE OF THE PARTY OF THE P			
W)	1	\ /				A Section Control of C		
Cont:	, ,					: :		
114.	project fluids s	preed on	ingerne ble	1	Mary Town	:	:	100
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5 5 6 7		/			N Total			
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Fax: 505-246-2600

PAGE: of / DATE / TIME: 11/2/2019 Railyord PROJECT: Abs JOB NO. : REC / SAMP BY: MSIFR

SOIL-VAPOR SAMPLING FORM

WELL/LOC. NO. :	WELL TYPE:		Monitor	□ Extraction	Z	Vapor Pin	□Other
52-07-01	WELL MATERIAL:	P	Stainless Steel	□ Poly / Implant		Teflon	Other

DUDGE W	OLUMP	W	ELL OR	PRT P	URGING		PLING L	CONTRACTOR NATIONAL PROPERTY OF THE PROPERTY O		· · · · · · · · · · · · · · · · · · ·	
☐ 1/4-ind Other _ Total Leng Number o	ubing Inner D ch ロ 3/8-inch う /と '! gth of Tubing f Well Volum	h □1/2-in /Casing:_ es to be F	21"	# Vols):	3	□ Land □ Peris Othe	taltic pum r - Type:	°cc±	•)		
PURGE V	OLUME CAL	CULATIO	N:	(Tubing (Refer to	Volume/ft Tubing /	x length) Hole Volu	X (# Pur me Table)	ge Volum	es) =	C	C or Liters
PURGE T	IME RT <u>1120</u> STO	DP 5m.n	ELAPSED	(Tubing Volume/ft x length) X (# Purge Volumes) = _(Refer to Tubing / Hole Volume Table) PURGE RATE Initial 0.2 L/pm Final 0.2 L/pm If 10 If 10 Pm If 10 P						L PURGE I. ()	VOLUME Liters
FIELD PA	RAMETER M	IEASURE	MENT	16~	7.	ffm	ppm	pp~			- AV a restand
Time 00:00	Minutes	FLOW L/min	Vacuum	CO	LEL	HZS	02	PID			
0136	1.5	0.2						65.5	<u> </u>		
0200	2.0	0.2	+					84.3	ļ		-
0300	30	0.2	+==	0	0	0.0	16.0	82.6		-	
0330	3.5	0.2	1=	0	0	0.0	13.1		+	 	
0400	4.0	0.2		ō	0	00	12.0	 	<u> </u>	 	
0500	5.0	οZ		0	0	0.0	11.4			<u> </u>	
Observation (2) 1 x (5) (2) x (5)	ons/Note: $(2^{1/2})^{2}$, $(12^{1/2})^{2}$, $(12^{1/2})^{2}$, $(0.)^{2}$	4(4)); +(1/6)2	x 3.14 x 3.14) x 3.14; x 3.14;	x 3 x 3 = 2	.l. i^3	= 346 a	m ³ oc	346 m	L = 1.7	3min=	min 45scc

□ Tedlar Bag		✓ Sorpti	on Tube	es	□ Sumi	ma Caniste	er	□ Septum Bottle			
SAMPLES					Sample :	Series:					
Sample/Locat	ion ID	Contain	ID	Date	Time	Depth	Volume		Commen	Comments	
5V-07-01		HØ23824	2	1112/16	1135	21"	14				
5V-07-01	مع	4023609		11/0/16	1135	21"	16				
		H02336	DG								
	w										

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PROJECT	/	Obs Ra	1741		
JOB NO.	:	1	7		
REC / SAI	MP BY	: M	5 / FR		

SOIL-VAPOR SAMPLING FORM

WELL/LOC. NO. :	WELL TYPE:	□ Monitor	□ Extraction	▽ Vapor Pin	□Other
54-07-02	WELL MATERIAL:	Stainless Steel	□ Poly / Implant	□ Teflon	□Other

WELL OR PRT PURGING & SAMPLING LOG

Dunce ve		AAL	LLUK	PAIPU	KGING				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*	
PURGE VO)LUME bing Inner Di	iamatau					NG METH	HOD			
	-		. –			□ Land					
Other 5	h □ 3/8-inch	⊔ 1/2-in	ch 🗆	3/4-inch		Peris	taltic pum	p /	270		
Ø Other	70	7				▼ Othe	r - Type:	CGI/	1+0		
Total Leng	th of Tubing,	/Casing: <u>/</u>	.,		2	·		~1º			
Number of	Well Volume	s to be P	urged (# Vols):		_ We	ll Depth:	21"		•	
		-		······································					5		7
PURGE VO	DLUME CALC	ULATIO	N:	(Tubing \	/olume/ft	x length)	X (# Pu	ge Volume	(s) = 34	<u>6 (</u> c	C or Liters
				(Refer to	Tubing / I	Hole Volui	me Table)				
PURGE TI	MF	******			PURGE	RATE			ACTUAL	DIIDGE	VOLUME
	rτ 1 <u>225</u> sto	5 .						Λ2.,		1, O	
TELO STAR	(1 (<u>25)</u> \$10	ا ۲	LAPSED		Initial <u>U.</u>	L/pm	Final_	U, L/pm	ו	1.0	Liters
		***************************************		to the second							· · · · · · · · · · · · · · · · · · ·
FIELD PAI	RAMETER M	EASURE	MENT	4	7/0	PPM		→			
Time	Minutes	FLOW	Vacuum	60	LEL	H25	02	PID			
00:00		L/min									
0100	1.0	0.2		-				1.8			
0,30	1.5	0.2			_		_	1.7			
0200	2.0	0.7	_	. —			T —	1.6			
0230	2.5	0.7		× 0	m 0	0.0	10.1	1 ms -			
03∞	3.0	0.7		0	Ð	0.0	14.1	 			
0330	3.5	0.2		0	0	6.0	12.5	1			
0400	4.0	0.2		Ó	0	0.0	12.1	<u> </u>			
0500	5.0	0.7			<u>-</u> -		 				
Observatio	ns /Note:				1	L		L	L	l,	<u> </u>
CD3EI VALIO	(5/16")2)+	, ,	1126	7	2 - 71	12.3. 5.	3				
1(21"×	("2/16"))+	(12"+(10)]]	x 5.14 x	e s - L1.	1 11 = 36	16 cm		0.4	/	•
	(, , , ,	•				3	46 m L	= 1.73~	in 6 20	DOML /	200
l						,			1.5	sec Pury	
								3	min 45	sec Pury	^

SAMPLE CONTAINER	ТҮРЕ							
□ Tedlar Bag			□ Sum	ma Caniste	r	☐ Septum Bottle		
SAMPLES			Sample	Series:				
Sample/Location ID	Contain ID	Date	Time	Depth ^{by}	Volume		Commen	ts
SV-07-02 7 A	1 46254866	11/2/16	1232	214	1.04			
5V-107-102 1 M	1 48234516	11/2/16	1232	21"	1.00			
HO234	516							
4 HOZ34	866							

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PROJEC	т: /	by Raily	aq		
JOB NO	. :) '			
REC / S	AMP BY	': MS		 	

SOIL-VAPOR SAMPLING FORM

WELL/LOC. NO. :	WELL TYPE:	□ Monitor	□ Extraction	∇apor Pin	□Other
SV-07-04	WELL MATERIAL:	Stainless Steel	□ Poly / Implant	□ Teflon	Other

WELL OR PRT PURGING & SAMPLING LOG

							I40 -				
PURGE VO							IG METH	IOD			
Casing/Tub						Landt					
□ 1/4-inch	ロ 3/8-inch /g ''	□ 1/2-in	ch 🗆	3/4-inch		्□ Perist	altic pum	20-1	0-0		
Other	9					Other	- Type:_	CGI/	アンリ		
Total Lengt	h of Tubing/	Casing:	<u> </u>		_						
Number of	Well Volume	s to be P	urged (# Vols):	3	Wel	ll Depth:	21"			
			- '	•		-	•			-	
PURGE VO	LUME CALC	ULATIO	N:	(Tubing '	Volume/ft : Tubing / F	x length) Hole Volun	X (# Pur ne Table)	ge Volume	s) = 3 ⁴	16 (CC or Liters
PURGE TIN	1E		***		PURGE	RATE			ACTUAL	PURGE	VOLUME
1248 STAPT	1253 STO	5 5mm	EL ADCED				Final (<u>0. </u>			
	310		LAFSED		Illicial <u>U.</u>	L/piii	rillai _	<u> </u>	l	1.0	Liters
FIELD PAR	AMETER MI	EASURE	MENT							· · · · · · · · · · · · · · · · · · ·	
Time	Minutes	FLOW	Vacuum	60	Ltc	H25	02	PID			
00:00		L/min									<u> </u>
0,00	1.0	0.2		-				1.7		1	
0130	1.5	0.2		_	1			1.6			<u> </u>
0200	2.0	0.2	_					1.5			
0230	2,5	0.2		075	m to	0.0	19.1				
0300	3.0	0.2		Ó	Ò	0.0	15.5	_			
0330	3.5	0.2		0	0	0.6	14.5	_			
0400	4.0	0.2		0	0	0.0	14.2				
0500	5.0	0.2		0	Õ	0.0	14.0				
Observation	s/Note:			_			<u> </u>		********		· · · · · · · · · · · · · · · · · · ·
((21"	s/Note: (5/µ)²);	(12",	('/e)	z)]x3	.14 x 3 =	21.1 in	346 = 346	6 111-			,
		****						a-1	0.24	'nin (a	te

İ										
SAMPLE COI	NTAINER TY	PE /								
□ Tedlar Ba	□ Tedlar Bag			s	□ Sumr	na Caniste	er	☐ Septum Bottle		
SAMPLES					Sample 9	Series:				
Sample/Loc		Contain		Date	Time	Depth	Volume		Commer	nts
SV-07-04	7 MS	C-811-274	GOILSON	11/2/16	1259	21"	1.04			
5V-107-04 5V-107-04	(G016586	4	11/2/16	1259	21"	1.04			
	4 6011557	6								

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WELL/LOC. NO. :

54-07-03

0330

0400

0430

3,5

4.0

4.5

0.2

0.2

0.2

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JOB NO. :		
	BY: MS/FR	

□Other

Other

√ Vapor Pin

□ Teflon

SOIL-VAPOR SAMPLING FORM

WELL TYPE:

WELL MATERIAL:

		W	ELL OR	PRT PI	JRGING	& SAM	PLING I	LOG			
PURGE VO	LUME		*****			PURGII	NG MET	HOD		····	
Casing/Tub	ing Inner D	iameter:				□ Landi	tec				
□ 1/4-inch	□ 3/8-incl	n □1/2-in	ch 🗆	3/4-inch	1	□ Perist	taltic pum	пр	_		
Other						₽ Othei	r - Type:⊆	GI/PI	D 		
Total Lengt	h of Tubing	/Casing:_	21"		5			7."			
Number of	Well Volum	es to be F	urged (# Vols):		We	ll Depth:	٠ ١			
	lumber of Well Volumes to be Purged (# Vols):3 Well Depth: 21 "										
	*****								747.WWW.WW.W.W.W.W.W.		
PURGE VO	LUME CAL	CULATIO	N:	(Tubina	Volume/ft	x lenath)	X (# Pu	rge Volume	ود) = 34	16 1	CC or Liters
				(Refer to	Tubing /	Hole Volur	ne Table)	i voidini		(Se yr Litters
DUDGE TT	45										
PURGE TIN		c .			PURGE				ACTUA	L PURGE	VOLUME
STAR	T 1315 STO	المنسر D	ELAPSED)	Initial _C), 2 L/pm	Final). 	n	1.0	Liters
		****		***************************************	" · · · · · · · · · · · · · · · · · · ·						
FIELD PAR	AMETER M	EASURE	MENT								
Time	Minutes	FLOW	Vacuum	60	LEL	H25	02	PID	***************************************	1	
00:00		L/min								1	
0100	1.0	0.2						2.0			
0,30	1.5	0.2				T		1.9			
0200	2.0	0,2			T	—	1—	1.7	<u> </u>	1	
0230	25	0.2				0.0	15.2				
() 1 ()	٠, .		1				111.5		†	1	

☐ Monitor

Stainless Steel

☐ Extraction

14.2

14.1

□ Poly / Implant

0,0 14.0 Observations/Note: [(21 x (516)2)] x 3.14 x 3 = 21.1 in = 346 mL = 1min 45 xc purple af rate of 0.2 c/min

0.0

SAMPLE CONTAINER								
□ Tedlar Bag	✓ Sorption Tubes			na Caniste	er	☐ Septum Bottle		
SAMPLES			Sample 9	Series:				
Sample/Location ID	Contain ID	Date	Time	Depth	Volume		Comments	
SV-07-02	G0115155	11/2/16	/32/	21"	1.04			
SV-07-02	HØ234849	11/2/16	1321	21"	1.04			

APPENDIX B

Laboratory Analytical Report and Maps for Soil Vapor



Client: Vista GeoScience 130 Capital Drive, Suite C Golden, CO 80401

Attn: Mr. Mike Martin

Soil-Gas Samples -- Analytical Report

Date: December 12, 2016 Beacon Project No. 3588 Rev1

Project Reference:	Albuquerque Railyards, Albuquerque, NM			
Sampling Date: October 25 through November 3, 2016				
Samples Received: November 4 and 8, 2016				
Analyses Completed:	November 10, 2016			

Results for the following samples are included in this data package:

Sample ID	Matrix	Analysis
SV-03 A (HO234823)	Air	TO-17
SV-04 A (GO119804)	Air	TO-17
SV-06 A (HO234809)	Air	TO-17
SV-07 A (HO199678)	Air	TO-17
SV-08 A (1049238)	Air	TO-17
SV-09 A (GO177458)	Air	TO-17
SV-10 A (GO177407)	Air	TO-17
SV-11 A (GO164559)	Air	TO-17
SV-12 A (HO200253)	Air	TO-17
SV-14 A (GO115947)	Air	TO-17
SV-16 A (HO199673)	Air	TO-17
SV-17 A (HO232690)	Air	TO-17
SV-21 A (HO199664)	Air	TO-17
SV-23 A (HO200288)	Air	TO-17
SV-27 A (1049249)	Air	TO-17
SV-28 A (1100863)	Air	TO-17
SV-29 A (HO200227)	Air	TO-17
SV-30 A (GO167057)	Air	TO-17
SV-31 A (HO200236)	Air	TO-17
SV-32 A (GO164954)	Air	TO-17
SV-03-01 (HO234875)	Soil Gas	TO-17
SV-03-02 (GO178581)	Soil Gas	TO-17
SV-03-03 (HO234580)	Soil Gas	TO-17
SV-05-01 (1100817)	Soil Gas	TO-17
SV-05-02 (1049459)	Soil Gas	TO-17
SV-05-03 (1049520)	Soil Gas	TO-17
SV-05-04 (HO231898)	Soil Gas	TO-17
SV-05-05 (GO177980)	Soil Gas	TO-17
SV-05-06 (1101163)	Soil Gas	TO-17
SV-07-01 (HO238242)	Soil Gas	TO-17
SV-07-02 (HO234516)	Soil Gas	TO-17
SV-07-03 (GO115955)	Soil Gas	TO-17

Sample ID	Matrix	Analysis
SV-07-04 (GO115976)	Soil Gas	TO-17
SV-08-01 (GO164999)	Soil Gas	TO-17
SV-08-02 (1101399)	Soil Gas	TO-17
SV-08-03 (HO199622)	Soil Gas	TO-17
SV-08-04 (HO199658)	Soil Gas	TO-17
SV-08-05 (GO166889)	Soil Gas	TO-17
SV-08-06 (HO232630)	Soil Gas	TO-17
SV-08-07 (GO164568)	Soil Gas	TO-17
SV-08-08 (HO234589)	Soil Gas	TO-17
SV-08-09 (HO234844)	Soil Gas	TO-17
SV-08-10 (GO177969)	Soil Gas	TO-17

Sample Collection

Beacon Environmental provided Vista GeoScience with thermally conditioned multi-bed stainless steel tubes to target a custom list of analytes. Soil gas was drawn through each tube for five (5) minutes with a flowrate of 200 mL/min and the resulting mass of target analytes captured on each sampler was reported as a concentration.

U. S. EPA Method TO-17

All samples were analyzed for a custom target compound list following U.S. EPA Method TO-17. The analytical results are reported in **Table 1**, with results reported in $\mu g/m^3$ and pppv based on the measured mass and volume of gas sampled (one liter).

Reporting Limits (RLs) for EPA Method TO-17

The lowest point in the calibration curve and the limit of quantitation (LOQ) is 10 nanograms (ng), which is the RL; however, when reporting concentration data in Table 1, the values are provided in micrograms per meter cubed ($\mu g/m^3$) and ppbv. The RLs represent a baseline above which results exceed laboratory-determined limits of precision and accuracy . For 1,1,2,2-Tetrachloroethane; 1,2,3-Trichloropropane; and Naphthalene, estimated measurements below the LOQ but above the detection limit (DL) of 2.5 ng are reported to meet project reporting limit require ments. Furthermore, per Vista GeoScience's request, samples were reviewed for measurements of 1,1,2-Trichloroethane that are above 2.0 ng to meet project reporting requirements. Non-detects of this compound above 2.0 ng are reported with high confidence. All reported measurements below the LOQ are estimates and are qualified with a J flag.

Calibration Verification

The initial laboratory control sample (LCS) also serves as the calibration verification and values for the analytes were all within $\pm 30\%$ of the true values as defined by the initial five-point calibration and m et the requirements specified in Beacon Environmental's Quality Manual. Both the LCS and the laboratory control duplicate (LCSD) are spiked a t 50 ng and percentage of recovery is calculated and reported. Acceptance criteria for surrogate and analyte recoveries are 70 to 130 percent; all surrogates and analytes were within the acceptance criteria.

Internal Standards and Surrogates

Internal standards and su rrogates are spiked on each field and QC sample at 100 ng and 50 ng, respectively, and the percentage of recovery is calculated. Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates were within the acceptance criteria.

Blank Contamination

No targeted compounds above the lim it of detection (LOD) for each compound were observed in the Laboratory Method Blanks (LB_161108a and LB_161109a). For comparison to field sample results, one liter was used as the volume to calculate the LOQs for the blanks.

Discussion

Forty (40) s orbent tubes were r eceived on November 4, 2016, and forty -six (46) sorbent tubes were received on November 8, 2016. All samples were collected at each location following U.S. EPA Method TO-17; at the request of the client, only one (1) sample from each location was reported. Sa mpling start and stop times, as well as flowrates, can be found in the Chain of Custody (**Attachment 1**).

Demonstrated Linear Range of the GC-MS Instrumentation (EPA Method TO-17)

An initial five-point calibration is performed on the instrumentation from 10 to 200 ng per analyte.

Attachments:

-1- Chain of Custody

ALL DATA MEET REQUIREMENTS AS SPECIFIE D IN THE BEACON ENVIRONMENTAL SERVICES, INC. QUALITY MANUAL AND THE RESULTS RELATE ONLY TO THE SAMPLES REPORTED. BEACON ENVIRONMENTAL SERVICES IS ACCREDITED TO ISO/IEC 17025:2005, AND THE WORK PERFORMED WAS IN ACCORDANCE WITH ISO/IEC 17025 REQUIREMENTS, WITH THE EXCEPTION WITH THE EXCEPTION THAT SAMPLES WERE ANALYZED WITHIN A 24-HOUR TUNE WINDOW AND 2-METHYLNAPHTHALENE IS NOT INCLUDED IN BEAC ON'S SCOPE OF ACCREDITATION. THIS REPORT SHALL NOT BE REPRODUC ED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY. RELEASE OF THE DATA HAS BEEN AUTHORIZED BY THE L ABORATORY DIRECTOR OR HIS SIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURES:

Steven C. Thornley Laboratory Director

Steven (Thornley

Quality

Patti J. Riggs

Date: December 12, 2016

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110802
Beacon Sample ID: LCS_161108a

Client ID/Sampling Location: Date Time Collected:

Matrix:

Dilution Factor: 1.0 Sample Volume in Liters: 1.00

Date Received:

Analysis Date: 11/8/2016 Analysis Time: 10:30:00 AM

Beacon Job Number:

Beacon Job Inuliidei.				
	Results	Units	Completed	Limits
COMPOUNDS	000	0/D=~	4410146 10 10	00.150
Vinyl Chloride	82%	%REC	11/8/16 10:30	80-120
1,1-Dichloroethene	100%	%REC	11/8/16 10:30	80-120
1,1,2-Trichlorotrifluoroethane (Fr.113)	86%	%REC	11/8/16 10:30	80-120
trans-1,2-Dichloroethene	103%	%REC	11/8/16 10:30	80-120
Methyl-t-butyl ether	94%	%REC	11/8/16 10:30	80-120
1,1-Dichloroethane	100%	%REC	11/8/16 10:30	80-120
cis-1,2-Dichloroethene	102%	%REC	11/8/16 10:30	80-120
Chloroform	101%	%REC	11/8/16 10:30	80-120
1,2-Dichloroethane	98%	%REC	11/8/16 10:30	80-120
1,1,1-Trichloroethane	96%	%REC	11/8/16 10:30	80-120
Carbon Tetrachloride	96%	%REC	11/8/16 10:30	80-120
Benzene	100%	%REC	11/8/16 10:30	80-120
Trichloroethene	108%	%REC	11/8/16 10:30	80-120
1,4-Dioxane	110%	%REC	11/8/16 10:30	80-120
1,1,2-Trichloroethane	110%	%REC	11/8/16 10:30	80-120
Toluene	118%	%REC	11/8/16 10:30	80-120
1,2-Dibromoethane (EDB)	110%	%REC	11/8/16 10:30	80-120
Tetrachloroethene	94%	%REC	11/8/16 10:30	80-120
1,1,1,2-Tetrachloroethane	103%	%REC	11/8/16 10:30	80-120
Chlorobenzene	102%	%REC	11/8/16 10:30	80-120
Ethylbenzene	106%	%REC	11/8/16 10:30	80-120
p & m-Xylene	108%	%REC	11/8/16 10:30	80-120
1,1,2,2-Tetrachloroethane	99%	%REC	11/8/16 10:30	80-120
o-Xylene	101%	%REC	11/8/16 10:30	80-120
1,2,3-Trichloropropane	97%	%REC	11/8/16 10:30	80-120
Isopropylbenzene	101%	%REC	11/8/16 10:30	80-120
1,3,5-Trimethylbenzene	110%	%REC	11/8/16 10:30	80-120
1,2,4-Trimethylbenzene	102%	%REC	11/8/16 10:30	80-120
1,3-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,4-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,2-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,2,4-Trichlorobenzene	111%	%REC	11/8/16 10:30	80-120
Naphthalene	107%	%REC	11/8/16 10:30	80-120
1,2,3-Trichlorobenzene	104%	%REC	11/8/16 10:30	80-120
2-Methylnaphthalene	102%	%REC	11/8/16 10:30	80-120
,				
SURROGATES	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	104	70-130	11/8/16 10:30	A16110802
Toluene-d8	105	70-130	11/8/16 10:30	A16110802
Bromofluorobenzene	107	70-130	11/8/16 10:30	A16110802
		, 0 150	11,0,1010.00	1110110002

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110803 Beacon Sample ID: LB 161108a

Client ID/Sampling Location: Date Time Collected:

Matrix:
Dilution Factor: 1.0

Sample Volume in Liters: 1.00
Date Received:

Analysis Date: 11/8/2016 Analysis Time: 10:53:00 AM Beacon Job Number:

Results LOQ LOQ Results COMPOUNDS Completed ug/m3 ug/m3 ppbv ppbv Vinyl Chloride 3.91 U 10.00 U 11/8/16 10:53 1,1-Dichloroethene 10.00 2.52 11/8/16 10:53 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/8/16 10:53 trans-1,2-Dichloroethene 10.00 2.52 U 11/8/16 10:53 Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 10:53 1,1-Dichloroethane U 10.00 U 2.47 11/8/16 10:53 cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 10:53 U 2.05 Chloroform 10.00 U 11/8/16 10:53 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 10:53 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 10:53 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 10:53 Benzene U 10.00 U 3.13 11/8/16 10:53 Trichloroethene U 10.00 U 1.86 11/8/16 10:53 1,4-Dioxane U 10.00 2.77 11/8/16 10:53 U 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 10:53 Toluene U 10.00 U 2.65 11/8/16 10:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/8/16 10:53 Tetrachloroethene U 10.00 U 1.47 11/8/16 10:53 1,1,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 10:53 Chlorobenzene U U 2.17 10.00 11/8/16 10:53 U 2.30 Ethylbenzene 10.00 U 11/8/16 10:53 p & m-Xylene U U 2.30 10.00 11/8/16 10:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 10:53 o-Xylene U 10.00 U 2.30 11/8/16 10:53 1,2,3-Trichloropropane U 10.00 U 1.66 11/8/16 10:53 Isopropylbenzene U 2.03 10.00 U 11/8/16 10:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 10:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 10:53 1,3-Dichlorobenzene U 10.00 U 1.66 11/8/16 10:53 U 1,4-Dichlorobenzene 10.00 U 1.66 11/8/16 10:53 U 10.00 U 1,2-Dichlorobenzene 1.66 11/8/16 10:53 U 1.35 1,2,4-Trichlorobenzene 10.00 U 11/8/16 10:53 Naphthalene U 10.00 U 1.91 11/8/16 10:53 1.35 1,2,3-Trichlorobenzene U 10.00 U 11/8/16 10:53 2-Methylnaphthalene U 10.00 U 1.72 11/8/16 10:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110803 11/8/16 10:53 Toluene-d8 107 70-130 A16110803 11/8/16 10:53 A16110803 Bromofluorobenzene 102 70-130 11/8/16 10:53

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110804
Beacon Sample ID: LCSD_161108a

Client ID/Sampling Location: Date Time Collected:

> Matrix: Dilution Factor:

Dilution Factor: 1.0 Sample Volume in Liters: 1.00

Date Received:

Analysis Date: 11/8/2016 Analysis Time: 11:16:00 AM

Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	80%	%REC	11/8/16 11:16	70-130
1,1-Dichloroethene	87%	%REC	11/8/16 11:16	70-130
1,1,2-Trichlorotrifluoroethane (Fr.113)	80%	%REC	11/8/16 11:16	70-130
trans-1,2-Dichloroethene	101%	%REC	11/8/16 11:16	70-130
Methyl-t-butyl ether	84%	%REC	11/8/16 11:16	70-130
1,1-Dichloroethane	104%	%REC	11/8/16 11:16	70-130
cis-1,2-Dichloroethene	104%	%REC	11/8/16 11:16	70-130
Chloroform	103%	%REC	11/8/16 11:16	70-130
1,2-Dichloroethane	98%	%REC	11/8/16 11:16	70-130
1,1,1-Trichloroethane	88%	%REC	11/8/16 11:16	70-130
Carbon Tetrachloride	88%	%REC	11/8/16 11:16	70-130
Benzene	100%	%REC	11/8/16 11:16	70-130
Trichloroethene	106%	%REC	11/8/16 11:16	70-130
1,4-Dioxane	108%	%REC	11/8/16 11:16	70-130
1,1,2-Trichloroethane	105%	%REC	11/8/16 11:16	70-130
Toluene	111%	%REC	11/8/16 11:16	70-130
1,2-Dibromoethane (EDB)	112%	%REC	11/8/16 11:16	70-130
Tetrachloroethene	95%	%REC	11/8/16 11:16	70-130
1,1,1,2-Tetrachloroethane	99%	%REC	11/8/16 11:16	70-130
Chlorobenzene	101%	%REC	11/8/16 11:16	70-130
Ethylbenzene	99%	%REC	11/8/16 11:16	70-130
p & m-Xylene	99%	%REC	11/8/16 11:16	70-130
1,1,2,2-Tetrachloroethane	99%	%REC	11/8/16 11:16	70-130
o-Xylene	96%	%REC	11/8/16 11:16	70-130
1,2,3-Trichloropropane	95%	%REC	11/8/16 11:16	70-130
Isopropylbenzene	98%	%REC	11/8/16 11:16	70-130
1,3,5-Trimethylbenzene	108%	%REC	11/8/16 11:16	70-130
1,2,4-Trimethylbenzene	100%	%REC	11/8/16 11:16	70-130
1,3-Dichlorobenzene	101%	%REC	11/8/16 11:16	70-130
1,4-Dichlorobenzene	103%	%REC	11/8/16 11:16	70-130
1,2-Dichlorobenzene	102%	%REC	11/8/16 11:16	70-130
1,2,4-Trichlorobenzene	111%	%REC	11/8/16 11:16	70-130
Naphthalene	108%	%REC	11/8/16 11:16	70-130
1,2,3-Trichlorobenzene	104%	%REC	11/8/16 11:16	70-130
2-Methylnaphthalene	96%	%REC	11/8/16 11:16	70-130
SURROGATES	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	99	70-130	11/8/16 11:16	A16110804
Toluene-d8	108	70-130	11/8/16 11:16	A16110804
Bromofluorobenzene	102	70-130	11/8/16 11:16	A16110804

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110806
Beacon Sample ID: HO234823
Client ID/Sampling Location: SV-03A
Date Time Collected: 10/26/16 3:01 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 12:26:00 PM
Beacon Job Number: 3588

	Results	LOQ	Results	LOO	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 12:26
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 12:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 12:26
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 12:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
Chloroform	U	10.00	U	2.05	11/8/16 12:26
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 12:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 12:26
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 12:26
Benzene	U	10.00	U	3.13	11/8/16 12:26
Trichloroethene	U	10.00	U	1.86	11/8/16 12:26
1,4-Dioxane	U	10.00	U	2.77	11/8/16 12:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 12:26
Toluene	44.57	10.00	11.83	2.65	11/8/16 12:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 12:26
Tetrachloroethene	U	10.00	U	1.47	11/8/16 12:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 12:26
Chlorobenzene	U	10.00	U	2.17	11/8/16 12:26
Ethylbenzene	U	10.00	U	2.30	11/8/16 12:26
p & m-Xylene	27.43	10.00	6.32	2.30	11/8/16 12:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 12:26
o-Xylene	U	10.00	U	2.30	11/8/16 12:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 12:26
Isopropylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 12:26
Naphthalene	19.56	10.00	3.73	1.91	11/8/16 12:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 12:26
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 12:26
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110806		11/8/16 12:26
Toluene-d8	103	70-130	A16110806		11/8/16 12:26
Bromofluorobenzene	108	70-130	A16110806		11/8/16 12:26

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110808
Beacon Sample ID: GO119804
Client ID/Sampling Location: SV-04A
Date Time Collected: 10/26/16 4:10 PM
Matrix: Soil Gas
Dilution Factor: 1.0

Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 1:13:00 PM
Beacon Job Number: 3588

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 13:13
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 13:13
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 13:13
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 13:13
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
Chloroform	U	10.00	U	2.05	11/8/16 13:13
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 13:13
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 13:13
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 13:13
Benzene	U	10.00	U	3.13	11/8/16 13:13
Trichloroethene	U	10.00	U	1.86	11/8/16 13:13
1,4-Dioxane	U	10.00	U	2.77	11/8/16 13:13
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 13:13
Toluene	13.25	10.00	3.52	2.65	11/8/16 13:13
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 13:13
Tetrachloroethene	U	10.00	U	1.47	11/8/16 13:13
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:13
Chlorobenzene	U	10.00	U	2.17	11/8/16 13:13
Ethylbenzene	U	10.00	U	2.30	11/8/16 13:13
p & m-Xylene	U	10.00	U	2.30	11/8/16 13:13
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:13
o-Xylene	U	10.00	U	2.30	11/8/16 13:13
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 13:13
Isopropylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:13
Naphthalene	U	10.00	U	1.91	11/8/16 13:13
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:13
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 13:13
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110808		11/8/16 13:13
Toluene-d8	106	70-130	A16110808		11/8/16 13:13
Bromofluorobenzene	105	70-130	A16110808		11/8/16 13:13

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110810
Beacon Sample ID: HO234809
Client ID/Sampling Location: SV-06A
Date Time Collected: 10/25/16 11:33 AM
Matrix: Soil Gas

Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 1:59:00 PM
Beacon Job Number: 3588

Vinyl Chloride U 10.00 U 3.91 11/8/16 13:59 1,1-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/8/16 13:59 trans-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 13:59 1,1-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 cis-1,2-Dichloroethane U 10.00 U 2.52 11/8/16 13:59 Chloroform U 10.00 U 2.52 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59		Results	LOQ	Results	LOQ	
1,1-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/8/16 13:59 trans-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 13:59 1,1-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 cis-1,2-Dichloroethane U 10.00 U 2.52 11/8/16 13:59 Chloroform U 10.00 U 2.52 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 1.86 11/8/16 13:59 Trichloroethene U 10.00 U 2.77 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59		ug/m3	ug/m3		ppbv	Completed
1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/8/16 13:59 trans-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 13:59 1,1-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Chloroform U 10.00 U 2.47 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 1.86 11/8/16 13:59 Trichloroethene U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 2.77 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59<	Vinyl Chloride	U	10.00	U	3.91	11/8/16 13:59
trans-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 13:59 1,1-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Chloroform U 10.00 U 2.05 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 1.86 11/8/16 13:59 Trichloroethene U 10.00 U 2.77 11/8/16 13:59 1,4-Dioxane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59		U	10.00	U	2.52	11/8/16 13:59
Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 13:59 1,1-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Chloroform U 10.00 U 2.05 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 Toluene U 10.00 U 1.83 11/8/16 13:59	1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U		11/8/16 13:59
1,1-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Chloroform U 10.00 U 2.05 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 Toluene U 10.00 U 1.83 11/8/16 13:59	trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:59
cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 13:59 Chloroform U 10.00 U 2.05 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 Toluene U 10.00 U 1.83 11/8/16 13:59		U	10.00	U		11/8/16 13:59
Chloroform U 10.00 U 2.05 11/8/16 13:59 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 13:59
1,2-Dichloroethane U 10.00 U 2.47 11/8/16 13:59 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	cis-1,2-Dichloroethene	U	10.00	_	2.52	11/8/16 13:59
1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	Chloroform	U	10.00	U	2.05	11/8/16 13:59
Carbon Tetrachloride U 10.00 U 1.59 11/8/16 13:59 Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 13:59
Benzene U 10.00 U 3.13 11/8/16 13:59 Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 13:59
Trichloroethene U 10.00 U 1.86 11/8/16 13:59 1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 13:59
1,4-Dioxane U 10.00 U 2.77 11/8/16 13:59 1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	Benzene	U	10.00	U	3.13	11/8/16 13:59
1,1,2-Trichloroethane U 10.00 U 1.83 11/8/16 13:59 Toluene U 10.00 U 2.65 11/8/16 13:59	Trichloroethene	U	10.00	U	1.86	11/8/16 13:59
Toluene U 10.00 U 2.65 11/8/16 13:59	1,4-Dioxane	U	10.00	U	2.77	11/8/16 13:59
	1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 13:59
	Toluene	U	10.00	U	2.65	11/8/16 13:59
1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/8/16 13:59	1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 13:59
Tetrachloroethene U 10.00 U 1.47 11/8/16 13:59	Tetrachloroethene	U	10.00	U	1.47	11/8/16 13:59
1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 13:59	1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:59
Chlorobenzene U 10.00 U 2.17 11/8/16 13:59	Chlorobenzene	U	10.00	U	2.17	11/8/16 13:59
Ethylbenzene U 10.00 U 2.30 11/8/16 13:59	Ethylbenzene	U	10.00	U	2.30	11/8/16 13:59
p & m-Xylene U 10.00 U 2.30 11/8/16 13:59	p & m-Xylene	U	10.00	U	2.30	11/8/16 13:59
1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 13:59	1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:59
o-Xylene U 10.00 U 2.30 11/8/16 13:59	o-Xylene	U	10.00	U	2.30	11/8/16 13:59
1,2,3-Trichloropropane U 10.00 U 1.66 11/8/16 13:59	1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 13:59
Isopropylbenzene U 10.00 U 2.03 11/8/16 13:59	Isopropylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 13:59	1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 13:59	1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,3-Dichlorobenzene U 10.00 U 1.66 11/8/16 13:59	1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,4-Dichlorobenzene U 10.00 U 1.66 11/8/16 13:59	1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,2-Dichlorobenzene U 10.00 U 1.66 11/8/16 13:59	1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,2,4-Trichlorobenzene U 10.00 U 1.35 11/8/16 13:59	1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:59
Naphthalene U 10.00 U 1.91 11/8/16 13:59		U	10.00	U	1.91	11/8/16 13:59
1,2,3-Trichlorobenzene U 10.00 U 1.35 11/8/16 13:59	1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:59
2-Methylnaphthalene U 10.00 U 1.72 11/8/16 13:59		U	10.00	U	1.72	11/8/16 13:59
	•					
SURROGATES Percent Recovery Limits Lab File ID Completed	SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4 98 70-130 A16110810 11/8/16 13:59				A16110810		
Toluene-d8 107 70-130 A16110810 11/8/16 13:59	Toluene-d8	107	70-130	A16110810		11/8/16 13:59
Bromofluorobenzene 104 70-130 A16110810 11/8/16 13:59	Bromofluorobenzene	104	70-130	A16110810		11/8/16 13:59

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110812
Beacon Sample ID: HO199678
Client ID/Sampling Location: SV-07A
Date Time Collected: 10/25/16 1:40 PM
Matrix: Soil Gas
Dilution Factor: 1.0

Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 2:45:00 PM
Beacon Job Number: 3588

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 14:45
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 14:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 14:45
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 14:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
Chloroform	U	10.00	U	2.05	11/8/16 14:45
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 14:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 14:45
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 14:45
Benzene	U	10.00	U	3.13	11/8/16 14:45
Trichloroethene	U	10.00	U	1.86	11/8/16 14:45
1,4-Dioxane	U	10.00	U	2.77	11/8/16 14:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 14:45
Toluene	U	10.00	U	2.65	11/8/16 14:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 14:45
Tetrachloroethene	U	10.00	U	1.47	11/8/16 14:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 14:45
Chlorobenzene	U	10.00	U	2.17	11/8/16 14:45
Ethylbenzene	U	10.00	U	2.30	11/8/16 14:45
p & m-Xylene	U	10.00	U	2.30	11/8/16 14:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 14:45
o-Xylene	U	10.00	U	2.30	11/8/16 14:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 14:45
Isopropylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 14:45
Naphthalene	U	10.00	U	1.91	11/8/16 14:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 14:45
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 14:45
GLIDDOG A TIDO	D D	.	I 1 D'1 ID		
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110812		11/8/16 14:45
Toluene-d8	103	70-130	A16110812		11/8/16 14:45
Bromofluorobenzene	104	70-130	A16110812		11/8/16 14:45

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110814
Beacon Sample ID: 1049238
Client ID/Sampling Location: SV-08A
Date Time Collected: 10/25/16 3:42 PM
Matrix: Soil Gas
Dilution Factor: 1.0

 Sample Volume in Liters:
 1.00

 Date Received:
 11/4/2016

 Analysis Date:
 11/8/2016

 Analysis Time:
 3:31:00 PM

3588

Beacon Job Number:

LOQ Results LOQ Results COMPOUNDS Completed ug/m3 ug/m3 ppbv ppbv Vinyl Chloride 3.91 U 10.00 U 11/8/16 15:31 1,1-Dichloroethene 10.00 U 2.52 11/8/16 15:31 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/8/16 15:31 trans-1,2-Dichloroethene 10.00 2.52 U 11/8/16 15:31 Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 15:31 1,1-Dichloroethane U 10.00 U 2.47 11/8/16 15:31 cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 15:31 U 2.05 Chloroform 10.00 U 11/8/16 15:31 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 15:31 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 15:31 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 15:31 Benzene U 10.00 U 3.13 11/8/16 15:31 Trichloroethene U 10.00 U 1.86 11/8/16 15:31 1,4-Dioxane U 10.00 2.77 U 11/8/16 15:31 1,1,2-Trichloroethane U 10.00 1.83 U 11/8/16 15:31 Toluene U 10.00 U 2.65 11/8/16 15:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/8/16 15:31 Tetrachloroethene U 10.00 U 1.47 11/8/16 15:31 1,1,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 15:31 Chlorobenzene U U 2.17 10.00 11/8/16 15:31 U 2.30 Ethylbenzene 10.00 U 11/8/16 15:31 U U 2.30 p & m-Xylene 10.00 11/8/16 15:31 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 15:31 o-Xylene U 10.00 U 2.30 11/8/16 15:31 1,2,3-Trichloropropane U 10.00 U 1.66 11/8/16 15:31 Isopropylbenzene U 2.03 10.00 U 11/8/16 15:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 15:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 15:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/8/16 15:31 U 1,4-Dichlorobenzene 10.00 U 1.66 11/8/16 15:31 U 10.00 U 1,2-Dichlorobenzene 1.66 11/8/16 15:31 U 1,2,4-Trichlorobenzene 10.00 U 1.35 11/8/16 15:31 Naphthalene U 10.00 U 1.91 11/8/16 15:31 1.35 1,2,3-Trichlorobenzene U 10.00 U 11/8/16 15:31 2-Methylnaphthalene U 10.00 U 1.72 11/8/16 15:31 **SURROGATES** Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110814 11/8/16 15:31 Toluene-d8 107 70-130 A16110814 11/8/16 15:31 A16110814 Bromofluorobenzene 70-130 11/8/16 15:31 102

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110816
Beacon Sample ID: GO177458
Client ID/Sampling Location: SV-09A
Date Time Collected: 10/25/16 5:23 PM
Matrix: Soil Gas
Dilution Factor: 1.0

 Sample Volume in Liters:
 1.00

 Date Received:
 11/4/2016

 Analysis Date:
 11/8/2016

 Analysis Time:
 4:18:00 PM

3588

Beacon Job Number:

LOQ Results LOQ Results COMPOUNDS Completed ug/m3 ug/m3 ppbv ppbv Vinyl Chloride 3.91 U 10.00 U 11/8/16 16:18 1,1-Dichloroethene 10.00 U 2.52 11/8/16 16:18 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/8/16 16:18 trans-1,2-Dichloroethene 10.00 2.52 U 11/8/16 16:18 Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 16:18 11/8/16 16:18 1,1-Dichloroethane U 10.00 U 2.47 cis-1,2-Dichloroethene U 10.00 U 2.52 11/8/16 16:18 U 2.05 Chloroform 10.00 U 11/8/16 16:18 1,2-Dichloroethane U 10.00 U 2.47 11/8/16 16:18 1,1,1-Trichloroethane U 10.00 U 1.83 11/8/16 16:18 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 16:18 Benzene U 10.00 U 3.13 11/8/16 16:18 Trichloroethene U 10.00 U 1.86 11/8/16 16:18 1,4-Dioxane U 10.00 2.77 U 11/8/16 16:18 1,1,2-Trichloroethane U 10.00 1.83 U 11/8/16 16:18 Toluene U 10.00 U 2.65 11/8/16 16:18 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/8/16 16:18 Tetrachloroethene U 10.00 U 1.47 11/8/16 16:18 1,1,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 16:18 Chlorobenzene U U 2.17 10.00 11/8/16 16:18 U 2.30 Ethylbenzene 10.00 U 11/8/16 16:18 U U 2.30 p & m-Xylene 10.00 11/8/16 16:18 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 16:18 o-Xylene U 10.00 U 2.30 11/8/16 16:18 1,2,3-Trichloropropane U 10.00 U 1.66 11/8/16 16:18 Isopropylbenzene U 2.03 10.00 U 11/8/16 16:18 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 16:18 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 16:18 1,3-Dichlorobenzene U 10.00 U 1.66 11/8/16 16:18 U 1,4-Dichlorobenzene 10.00 U 1.66 11/8/16 16:18 U 10.00 U 1,2-Dichlorobenzene 1.66 11/8/16 16:18 U 1,2,4-Trichlorobenzene 10.00 U 1.35 11/8/16 16:18 Naphthalene U 10.00 U 1.91 11/8/16 16:18 1.35 1,2,3-Trichlorobenzene U 10.00 U 11/8/16 16:18 2-Methylnaphthalene U 10.00 U 1.72 11/8/16 16:18 **SURROGATES** Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 99 70-130 A16110816 11/8/16 16:18 Toluene-d8 106 70-130 A16110816 11/8/16 16:18 A16110816 Bromofluorobenzene 107 70-130 11/8/16 16:18

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110818
Beacon Sample ID: GO177407
Client ID/Sampling Location: SV-10A
Date Time Collected: 10/26/16 5:54 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 5:04:00 PM
Beacon Job Number: 3588

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 17:04
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 17:04
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 17:04
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 17:04
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
Chloroform	U	10.00	U	2.05	11/8/16 17:04
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 17:04
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 17:04
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 17:04
Benzene	U	10.00	U	3.13	11/8/16 17:04
Trichloroethene	U	10.00	U	1.86	11/8/16 17:04
1,4-Dioxane	U	10.00	U	2.77	11/8/16 17:04
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 17:04
Toluene	17.5	10.00	4.64	2.65	11/8/16 17:04
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 17:04
Tetrachloroethene	U	10.00	U	1.47	11/8/16 17:04
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:04
Chlorobenzene	U	10.00	U	2.17	11/8/16 17:04
Ethylbenzene	U	10.00	U	2.30	11/8/16 17:04
p & m-Xylene	U	10.00	U	2.30	11/8/16 17:04
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:04
o-Xylene	U	10.00	U	2.30	11/8/16 17:04
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 17:04
Isopropylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:04
Naphthalene	U	10.00	U	1.91	11/8/16 17:04
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:04
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 17:04
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110818		11/8/16 17:04
Toluene-d8	106	70-130	A16110818		11/8/16 17:04
Bromofluorobenzene	105	70-130	A16110818		11/8/16 17:04

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110820
Beacon Sample ID: GO164559
Client ID/Sampling Location: SV-11A
Date Time Collected: 10/26/16 5:21 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 5:51:00 PM
Beacon Job Number: 3588

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 17:51
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 17:51
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 17:51
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 17:51
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
Chloroform	U	10.00	U	2.05	11/8/16 17:51
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 17:51
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 17:51
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 17:51
Benzene	U	10.00	U	3.13	11/8/16 17:51
Trichloroethene	U	10.00	U	1.86	11/8/16 17:51
1,4-Dioxane	U	10.00	U	2.77	11/8/16 17:51
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 17:51
Toluene	17.44	10.00	4.63	2.65	11/8/16 17:51
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 17:51
Tetrachloroethene	U	10.00	U	1.47	11/8/16 17:51
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:51
Chlorobenzene	U	10.00	U	2.17	11/8/16 17:51
Ethylbenzene	U	10.00	U	2.30	11/8/16 17:51
p & m-Xylene	U	10.00	U	2.30	11/8/16 17:51
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:51
o-Xylene	U	10.00	U	2.30	11/8/16 17:51
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 17:51
Isopropylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:51
Naphthalene	U	10.00	U	1.91	11/8/16 17:51
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:51
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 17:51
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110820		11/8/16 17:51
Toluene-d8	108	70-130	A16110820		11/8/16 17:51
Bromofluorobenzene	107	70-130	A16110820		11/8/16 17:51

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110822
Beacon Sample ID: HO200253
Client ID/Sampling Location: SV-12A
Date Time Collected: 10/26/16 4:43 PM
Matrix: Soil Gas
Dilution Factor: 1.0

Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 6:39:00 PM
Beacon Job Number: 3588

Vinyl Chloride		Results	LOQ	Results	LOQ	
1,1-Dichloroethene	COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
1,2-Trichlorotrifluoroethane (Fr.113)	Vinyl Chloride	U	10.00	U	3.91	11/8/16 18:39
Tans 1,2-Dichloroethene	1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
Methyl-t-butyl ether U 10.00 U 2.77 11/8/16 18:39 J.1-Dichloroethane U 10.00 U 2.47 11/8/16 18:39 Zisci-1,2-Dichloroethane U 10.00 U 2.52 11/8/16 18:39 Zisci-1,2-Dichloroethane U 10.00 U 2.05 11/8/16 18:39 Zisci-1,2-Dichloroethane U 10.00 U 2.47 11/8/16 18:39 Zisci-1,1-Trichloroethane U 10.00 U 1.59 11/8/16 18:39 Carbon Tetrachloride U 10.00 U 1.59 11/8/16 18:39 Benzene U 10.00 U 1.83 11/8/16 18:39 Britishoroethane U 10.00 U 1.86 11/8/16 18:39 Frichloroethane U 10.00 U 1.83 11/8/16 18:39 Folume 14.31 10.00 U 1.83 11/8/16 18:39 Folume 14.31 10.00 U 1.30 11/8/16 18:39 <t< td=""><td>1,1,2-Trichlorotrifluoroethane (Fr.113)</td><td>U</td><td>10.00</td><td>U</td><td>1.30</td><td>11/8/16 18:39</td></t<>	1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 18:39
1-Dichloroethane	trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
1. 1. 1. 1. 1. 1. 1. 1.	Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 18:39
Chloroform	1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 18:39
1.2-Dichloroethane	cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
1,1-Trichloroethane	Chloroform	U	10.00	U	2.05	11/8/16 18:39
Carbon Tetrachloride U 10.00 U 1.59 11/8/16 18:39 3enzene U 10.00 U 3.13 11/8/16 18:39 Grichloroethene U 10.00 U 1.86 11/8/16 18:39 J.4-Dioxane U 10.00 U 2.77 11/8/16 18:39 J.1,2-Trichloroethane U 10.00 U 1.83 11/8/16 18:39 Foluene 14.31 10.00 U 1.30 11/8/16 18:39 Fetrachloroethane U 10.00 U 1.47 11/8/16 18:39 L1,1,2-Tetrachloroethane U 10.00 U 1.47 11/8/16 18:39 L1,1,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 L1,1,2-Tetrachloroethane U 10.00 U 2.17 11/8/16 18:39 Ethylbenzene U 10.00 U 2.30 11/8/16 18:39 L1,1,2-Tetrachloroethane U 10.00 U 2.30 11/8/16 18:39 E	1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 18:39
Senzene U 10.00 U 3.13 11/8/16 18:39 A-Dioxane U 10.00 U 1.86 11/8/16 18:39 A-Dioxane U 10.00 U 2.77 11/8/16 18:39 A-Dioxane U 10.00 U 2.77 11/8/16 18:39 A-Dioxane U 10.00 U 1.83 11/8/16 18:39 A-Dioxane U 10.00 U 1.83 11/8/16 18:39 A-Dioxane U 10.00 U 1.30 11/8/16 18:39 A-Dibromoethane (EDB) U 10.00 U 1.47 11/8/16 18:39 A-Dibromoethane U 10.00 U 1.47 11/8/16 18:39 A-Dibromoethane U 10.00 U 1.46 11/8/16 18:39 A-Dibromoethane U 10.00 U 2.30 11/8/16 18:39 A-Dibromoethane U 10.00 U 2.03 11/8/16 18:39 A-Dibromoethane U 10.00 U 1.66 11/8/16 18:39 A-Dibromoethane U 10.00 U 1.66 11/8/16 18:39 A-Dibromoethane U 10.00 U 1.35 11/8/16 18:39 A-Dibromoethane	1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 18:39
Trichloroethene	Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 18:39
1,4-Dioxane	Benzene	U	10.00	U	3.13	11/8/16 18:39
1,1,2-Trichloroethane	Trichloroethene	U	10.00	U	1.86	11/8/16 18:39
Toluene 14.31 10.00 3.8 2.65 11/8/16 18:39 1.2-Dibromoethane (EDB) U 10.00 U 1.30 11/8/16 18:39 1.4.2-Tetrachloroethene U 10.00 U 1.47 11/8/16 18:39 1.1,1.2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 1.1,1.2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 1.1,1.2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 1.1,1.2-Tetrachloroethane U 10.00 U 2.17 11/8/16 18:39 1.2,2-Tetrachloroethane U 10.00 U 2.30 11/8/16 18:39 1.2,2-Tetrachloroethane U 10.00 U 2.30 11/8/16 18:39 1.2,2-Tetrachloroethane U 10.00 U 2.30 11/8/16 18:39 1.2,2-Tetrachloroptopane U 10.00 U 2.30 11/8/16 18:39 1.2,3-Trichloroptopane U 10.00 U 2.30 11/8/16 18:39 1.3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1.3,5-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1.3,5-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1.3-Dichlorobenzene U 10.00 U 1.35 11/8/16 18:39 1.3-Dichlorobenzene U 10	1,4-Dioxane	U	10.00	U	2.77	11/8/16 18:39
1.2-Dibromoethane (EDB)	1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 18:39
Tetrachloroethene U 10.00 U 1.47 11/8/16 18:39 1,1,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 Chlorobenzene U 10.00 U 2.17 11/8/16 18:39 Ethylbenzene U 10.00 U 2.30 11/8/16 18:39 Os m-Xylene U 10.00 U 2.30 11/8/16 18:39 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/8/16 18:39 1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 2,2,3-Trichloroptopane U 10.00 U 2.30 11/8/16 18:39 1,2,3-Trichloroptopane U 10.00 U 2.03 11/8/16 18:39 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,2-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39	Toluene	14.31	10.00	3.8	2.65	11/8/16 18:39
1,1,2-Tetrachloroethane	1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 18:39
Chlorobenzene U 10.00 U 2.17 11/8/16 18:39 Ethylbenzene U 10.00 U 2.30 11/8/16 18:39 Se m-Xylene U 10.00 U 2.30 11/8/16 18:39 J.1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 D-Xylene U 10.00 U 2.30 11/8/16 18:39 J.2,3-Trichloropropane U 10.00 U 1.66 11/8/16 18:39 sopropylbenzene U 10.00 U 2.03 11/8/16 18:39 J.3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 J.2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 J.3-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 J.4-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 J.2-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 Naph	Tetrachloroethene	U	10.00	U	1.47	11/8/16 18:39
Ethylbenzene U 10.00 U 2.30 11/8/16 18:39 5 & m-Xylene U 10.00 U 2.30 11/8/16 18:39 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 1,2,3-Trichloropropane U 10.00 U 2.30 11/8/16 18:39 1,2,3-Trichloropropane U 10.00 U 2.03 11/8/16 18:39 1,2,3-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,3-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,4-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,2-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,2-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 </td <td>1,1,1,2-Tetrachloroethane</td> <td>U</td> <td>10.00</td> <td>U</td> <td>1.46</td> <td>11/8/16 18:39</td>	1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 18:39
1,2,2-Tetrachloroethane U 10.00 U 1.46 11/8/16 18:39 1,2,2-Tetrachloroperopane U 10.00 U 1.46 11/8/16 18:39 1,2,3-Trichloropropane U 10.00 U 1.66 11/8/16 18:39 1,2,3-Trichloropropane U 10.00 U 1.66 11/8/16 18:39 1,2,3-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/8/16 18:39 1,3-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,4-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,2-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 1,3,4-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 1,3,5-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 1,3	Chlorobenzene	U	10.00	U	2.17	11/8/16 18:39
1,2,2-Tetrachloroethane	Ethylbenzene	U	10.00	U	2.30	11/8/16 18:39
Description	p & m-Xylene	U	10.00	U	2.30	11/8/16 18:39
1,2,3-Trichloropropane	1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 18:39
Supropylbenzene	o-Xylene	U	10.00	U	2.30	11/8/16 18:39
1,3,5-Trimethylbenzene	1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 18:39
1,2,4-Trimethylbenzene	Isopropylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,3-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,4-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,2-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 Naphthalene U 10.00 U 1.91 11/8/16 18:39 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 2-Methylnaphthalene U 10.00 U 1.72 11/8/16 18:39 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 96 70-130 A16110822 11/8/16 18:39 Foluene-d8 103 70-130 A16110822 11/8/16 18:39	1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 18:39
J.4-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 J.2-Dichlorobenzene U 10.00 U 1.66 11/8/16 18:39 J.2,4-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 Naphthalene U 10.00 U 1.91 11/8/16 18:39 J.2,3-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 2-Methylnaphthalene U 10.00 U 1.72 11/8/16 18:39 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 96 70-130 A16110822 11/8/16 18:39 Foluene-d8 103 70-130 A16110822 11/8/16 18:39	1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,2-Dichlorobenzene	1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,2,4-Trichlorobenzene	1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	U	10.00	U	1.66	
Naphthalene U 10.00 U 1.91 11/8/16 18:39 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 2-Methylnaphthalene U 10.00 U 1.72 11/8/16 18:39 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 96 70-130 A16110822 11/8/16 18:39 Foluene-d8 103 70-130 A16110822 11/8/16 18:39	1,2,4-Trichlorobenzene	U	10.00	U		11/8/16 18:39
1,2,3-Trichlorobenzene U 10.00 U 1.35 11/8/16 18:39 2-Methylnaphthalene U 10.00 U 1.72 11/8/16 18:39 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 96 70-130 A16110822 11/8/16 18:39 Foluene-d8 103 70-130 A16110822 11/8/16 18:39	Naphthalene	U	10.00	U	1.91	
L-Methylnaphthalene U 10.00 U 1.72 11/8/16 18:39 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 96 70-130 A16110822 11/8/16 18:39 Foluene-d8 103 70-130 A16110822 11/8/16 18:39	1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 18:39
1,2-DCA-d4 96 70-130 A16110822 11/8/16 18:39 Foluene-d8 103 70-130 A16110822 11/8/16 18:39	2-Methylnaphthalene	U	10.00	U		
1,2-DCA-d4 96 70-130 A16110822 11/8/16 18:39 Foluene-d8 103 70-130 A16110822 11/8/16 18:39	SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
Toluene-d8 103 70-130 A16110822 11/8/16 18:39	1,2-DCA-d4					11/8/16 18:39
	Toluene-d8					
	Bromofluorobenzene					

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110824
Beacon Sample ID: GO115947
Client ID/Sampling Location: SV-14A
Date Time Collected: 10/26/16 3:38 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 7:25:00 PM
Beacon Job Number: 3588

Beacon Job Number.	3300				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 19:25
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 19:25
rans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 19:25
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 19:25
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
Chloroform	U	10.00	U	2.05	11/8/16 19:25
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 19:25
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 19:25
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 19:25
Benzene	U	10.00	U	3.13	11/8/16 19:25
Trichloroethene	U	10.00	U	1.86	11/8/16 19:25
1,4-Dioxane	U	10.00	U	2.77	11/8/16 19:25
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 19:25
Γoluene	31.71	10.00	8.42	2.65	11/8/16 19:25
,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 19:25
Tetrachloroethene	Ü	10.00	U	1.47	11/8/16 19:25
1,1,1,2-Tetrachloroethane	Ü	10.00	U	1.46	11/8/16 19:25
Chlorobenzene	Ü	10.00	Ü	2.17	11/8/16 19:25
Ethylbenzene	Ü	10.00	U	2.30	11/8/16 19:25
p & m-Xylene	21.31	10.00	4.91	2.30	11/8/16 19:25
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 19:25
o-Xylene	Ü	10.00	U	2.30	11/8/16 19:25
1,2,3-Trichloropropane	Ü	10.00	U	1.66	11/8/16 19:25
Isopropylbenzene	Ü	10.00	U	2.03	11/8/16 19:25
1,3,5-Trimethylbenzene	Ü	10.00	U	2.03	11/8/16 19:25
1,2,4-Trimethylbenzene	Ü	10.00	U	2.03	11/8/16 19:25
1,3-Dichlorobenzene	Ü	10.00	U	1.66	11/8/16 19:25
1.4-Dichlorobenzene	Ü	10.00	U	1.66	11/8/16 19:25
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 19:25
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 19:25
Naphthalene	14.05	10.00	2.68	1.91	11/8/16 19:25
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 19:25
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 19:25
z-ivietily maphunaiene	0	10.00		1./2	11/6/10 19.23
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110824		11/8/16 19:25
Γoluene-d8	107	70-130	A16110824		11/8/16 19:25
Bromofluorobenzene	107	70-130	A16110824		11/8/16 19:25

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110826
Beacon Sample ID: HO199673
Client ID/Sampling Location: SV-16A
Date Time Collected: 10/26/16 1:40 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 8:12:00 PM
Beacon Job Number: 3588

Beacon Job Nulliber.	3388				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 20:12
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 20:12
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 20:12
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 20:12
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
Chloroform	U	10.00	U	2.05	11/8/16 20:12
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 20:12
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 20:12
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 20:12
Benzene	U	10.00	U	3.13	11/8/16 20:12
Trichloroethene	U	10.00	U	1.86	11/8/16 20:12
1,4-Dioxane	U	10.00	U	2.77	11/8/16 20:12
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 20:12
Toluene	55.72	10.00	14.79	2.65	11/8/16 20:12
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 20:12
Tetrachloroethene	U	10.00	U	1.47	11/8/16 20:12
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:12
Chlorobenzene	U	10.00	U	2.17	11/8/16 20:12
Ethylbenzene	11.59	10.00	2.67	2.30	11/8/16 20:12
p & m-Xylene	39.66	10.00	9.13	2.30	11/8/16 20:12
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:12
o-Xylene	12.96	10.00	2.98	2.30	11/8/16 20:12
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 20:12
Isopropylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:12
Naphthalene	24.05	10.00	4.59	1.91	11/8/16 20:12
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:12
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 20:12
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110826		11/8/16 20:12
Toluene-d8	105	70-130	A16110826		11/8/16 20:12
Bromofluorobenzene	105	70-130	A16110826 A16110826		11/8/16 20:12
Bromonuorobenzene	109	/0-130	A10110826		11/8/10 20:12

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110828
Beacon Sample ID: HO232690
Client ID/Sampling Location: SV-17A
Date Time Collected: 10/26/16 2:23 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 8:59:00 PM
Beacon Job Number: 3588

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 20:59
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 20:59
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 20:59
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 20:59
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
Chloroform	U	10.00	U	2.05	11/8/16 20:59
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 20:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 20:59
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 20:59
Benzene	U	10.00	U	3.13	11/8/16 20:59
Trichloroethene	U	10.00	U	1.86	11/8/16 20:59
1,4-Dioxane	U	10.00	U	2.77	11/8/16 20:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 20:59
Toluene	41.0	10.00	10.88	2.65	11/8/16 20:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 20:59
Tetrachloroethene	U	10.00	U	1.47	11/8/16 20:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:59
Chlorobenzene	U	10.00	U	2.17	11/8/16 20:59
Ethylbenzene	10.04	10.00	2.31	2.30	11/8/16 20:59
p & m-Xylene	34.11	10.00	7.86	2.30	11/8/16 20:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:59
o-Xylene	12.04	10.00	2.77	2.30	11/8/16 20:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 20:59
Isopropylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:59
Naphthalene	22.73	10.00	4.34	1.91	11/8/16 20:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:59
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 20:59
CLIDDOCATEG	D 4 D	T	I 1 E'1 IE		C 11
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110828		11/8/16 20:59
Toluene-d8	104	70-130	A16110828		11/8/16 20:59
Bromofluorobenzene	107	70-130	A16110828		11/8/16 20:59

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110830
Beacon Sample ID: HO199664
Client ID/Sampling Location: SV-21A
Date Time Collected: 10/27/16 4:24 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 9:45:00 PM
Beacon Job Number: 3588

Beacon Coo I (allicor)	Dagulta	1.00	D a au léa	1.00	
COMPOLINIDE	Results	LOQ	Results	LOQ	Commissio 1
COMPOUNDS Vive Chlorida	ug/m3	ug/m3 10.00	ppbv U	9pbv 3.91	Completed 11/8/16 21:45
Vinyl Chloride	U				
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 21:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 21:45
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 21:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
Chloroform	U	10.00	U	2.05	11/8/16 21:45
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 21:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 21:45
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 21:45
Benzene	U	10.00	U	3.13	11/8/16 21:45
Trichloroethene	U	10.00	U	1.86	11/8/16 21:45
1,4-Dioxane	14.72	10.00	4.08	2.77	11/8/16 21:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 21:45
Toluene	36.29	10.00	9.63	2.65	11/8/16 21:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 21:45
Tetrachloroethene	U	10.00	U	1.47	11/8/16 21:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 21:45
Chlorobenzene	U	10.00	U	2.17	11/8/16 21:45
Ethylbenzene	U	10.00	U	2.30	11/8/16 21:45
p & m-Xylene	U	10.00	U	2.30	11/8/16 21:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 21:45
o-Xylene	U	10.00	U	2.30	11/8/16 21:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 21:45
Isopropylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,2,4-Trimethylbenzene	Ü	10.00	Ü	2.03	11/8/16 21:45
1,3-Dichlorobenzene	949.69 E	10.00	157.95 E	1.66	11/8/16 21:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 21:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 21:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 21:45
Naphthalene	U	10.00	U	1.91	11/8/16 21:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 21:45
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 21:45
2-iviciny maphulatene	0	10.00	0	1./4	11/0/10 21.43
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110830		11/8/16 21:45
Toluene-d8					
Totache do	103	70-130	A16110830		11/8/16 21:45

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110832
Beacon Sample ID: HO200288
Client ID/Sampling Location: SV-23A
Date Time Collected: 10/27/16 4:57 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 10:31:00 PM
Beacon Job Number: 3588

Beacon Job Number.	3300				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 22:31
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 22:31
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 22:31
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 22:31
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
Chloroform	U	10.00	U	2.05	11/8/16 22:31
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 22:31
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 22:31
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 22:31
Benzene	U	10.00	U	3.13	11/8/16 22:31
Trichloroethene	U	10.00	U	1.86	11/8/16 22:31
1,4-Dioxane	15.2	10.00	4.22	2.77	11/8/16 22:31
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 22:31
Toluene	28.15	10.00	7.47	2.65	11/8/16 22:31
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 22:31
Tetrachloroethene	U	10.00	U	1.47	11/8/16 22:31
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 22:31
Chlorobenzene	U	10.00	U	2.17	11/8/16 22:31
Ethylbenzene	U	10.00	U	2.30	11/8/16 22:31
p & m-Xylene	U	10.00	U	2.30	11/8/16 22:31
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 22:31
o-Xylene	U	10.00	U	2.30	11/8/16 22:31
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 22:31
Isopropylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,3-Dichlorobenzene	1,076.85 E	10.00	179.1 E	1.66	11/8/16 22:31
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 22:31
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 22:31
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 22:31
Naphthalene	U	10.00	U	1.91	11/8/16 22:31
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 22:31
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 22:31
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110832		11/8/16 22:31
Toluene-d8	101	70-130	A16110832		11/8/16 22:31
Bromofluorobenzene	107	70-130	A16110832		11/8/16 22:31

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110834
Beacon Sample ID: 1049249
Client ID/Sampling Location: SV-27A
Date Time Collected: 10/27/16 3:55 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 11:18:00 PM
Beacon Job Number: 3588

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 23:18
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 23:18
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 23:18
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 23:18
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
Chloroform	U	10.00	U	2.05	11/8/16 23:18
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 23:18
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 23:18
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 23:18
Benzene	U	10.00	U	3.13	11/8/16 23:18
Trichloroethene	U	10.00	U	1.86	11/8/16 23:18
1,4-Dioxane	U	10.00	U	2.77	11/8/16 23:18
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 23:18
Toluene	45.91	10.00	12.18	2.65	11/8/16 23:18
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 23:18
Tetrachloroethene	U	10.00	U	1.47	11/8/16 23:18
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 23:18
Chlorobenzene	U	10.00	U	2.17	11/8/16 23:18
Ethylbenzene	U	10.00	U	2.30	11/8/16 23:18
p & m-Xylene	U	10.00	U	2.30	11/8/16 23:18
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 23:18
o-Xylene	U	10.00	U	2.30	11/8/16 23:18
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 23:18
Isopropylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,3-Dichlorobenzene	876.94 E	10.00	145.85 E	1.66	11/8/16 23:18
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 23:18
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 23:18
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 23:18
Naphthalene	U	10.00	U	1.91	11/8/16 23:18
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 23:18
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 23:18
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110834		11/8/16 23:18
Toluene-d8	104	70-130	A16110834		11/8/16 23:18
Bromofluorobenzene	107	70-130	A16110834		11/8/16 23:18

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110836
Beacon Sample ID: 1100863
Client ID/Sampling Location: SV-28A
Date Time Collected: 10/27/16 3:26 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 12:07:00 AM
Beacon Job Number: 3588

COMPOUNDS ug/m3 ug/m3 ppbv Completed Vinyl Chloride U 10.00 U 3.91 11/9/16 0:07 I,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 2.52 11/9/16 0:07 rans-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 0:07 dutyl-t-butyl ether U 10.00 U 2.57 11/9/16 0:07 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 0:07 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 0:07 1,2-Dichloroethane U 10.00 U 2.52 11/9/16 0:07 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 0:07 1,2-Dichloroethane U 10.00 U 1.83 11/9/16 0:07 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 0:07 1,1,1-Trichloroethane U 10.00 U 1.86 11/9/16 0:07 1,4-P	Zeacon Coo i validor.	Results	LOQ	Results	LOO	
Vinyl Chloride	COMPOUNDS					Completed
1,1-Dichloroethene						
1,1,2-Trichlorotrifluoroethane (Fr.113)	•					
Trans-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 0:07						
Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 0:07 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 0:07 1,1-Dichloroethane U 10.00 U 2.52 11/9/16 0:07 Chloroform U 10.00 U 2.05 11/9/16 0:07 1,1-Trichloroethane U 10.00 U 2.47 11/9/16 0:07 Carbon Tetrachloride U 10.00 U 1.83 11/9/16 0:07 Benzene U 10.00 U 1.83 11/9/16 0:07 Trichloroethane U 10.00 U 1.86 11/9/16 0:07 Trichloroethane U 10.00 U 1.83 11/9/16 0:07 I,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:07 I,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:07 I,1,2-Trichloroethane U 10.00 U 1.3 11/9/16 0:07 Tetrachloroethane </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1,1-Dichloroethane	*					
Display	· · · · · · · · · · · · · · · · · · ·					
Chloroform	•					
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Benzene U 10.00 U 3.13 11/9/16 0:07						
Trichloroethene						
1,4-Dioxane				-		
1,1,2-Trichloroethane						
Toluene 47.19 10.00 12.52 2.65 11/9/16 0:07 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:07 Tetrachloroethene U 10.00 U 1.47 11/9/16 0:07 L1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:07 Chlorobenzene U 10.00 U 2.17 11/9/16 0:07 Chlorobenzene U 10.00 U 2.30 11/9/16 0:07 Ethylbenzene U 10.00 U 2.30 11/9/16 0:07 A m-Xylene U 10.00 U 2.30 11/9/16 0:07 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 0:07 A-Xylene U 10.00 U 1.46 11/9/16 0:07 1,2,3-Trichloroptropane U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylben	,					
1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:07 Tetrachloroethene U 10.00 U 1.47 11/9/16 0:07 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:07 Chlorobenzene U 10.00 U 2.17 11/9/16 0:07 Ethylbenzene U 10.00 U 2.30 11/9/16 0:07 Ethylbenzene U 10.00 U 2.30 11/9/16 0:07 p & m-Xylene U 10.00 U 2.30 11/9/16 0:07 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:07 1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 1.66 11/9/16 0:07	, ,					
Tetrachloroethene U 10.00 U 1.47 11/9/16 0:07 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:07 Chlorobenzene U 10.00 U 2.17 11/9/16 0:07 Ethylbenzene U 10.00 U 2.30 11/9/16 0:07 p & m-Xylene U 10.00 U 2.30 11/9/16 0:07 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:07 0-Xylene U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,4-						
1,1,2-Tetrachloroethane						
Chlorobenzene U 10.00 U 2.17 11/9/16 0:07 Ethylbenzene U 10.00 U 2.30 11/9/16 0:07 p & m-Xylene U 10.00 U 2.30 11/9/16 0:07 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:07 0-Xylene U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene 1,179.27 E 10.00 U 2.03 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.35 11/9/16 0:07 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Ethylbenzene U 10.00 U 2.30 11/9/16 0:07 p & m-Xylene U 10.00 U 2.30 11/9/16 0:07 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:07 0-Xylene U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 Naphthalene U 10.00 U 1.35 11/9/16 0:07 2-Methylna						
Description of the image of t						
1,1,2,2-Tetrachloroethane U 10,00 U 1.46 11/9/16 0:07 o-Xylene U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:07 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed						
Do-Xylene U 10.00 U 2.30 11/9/16 0:07 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:07 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:07 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene 1,179.27 E 10.00 196.13 E 1.66 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.91 11/9/16 0:07 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Stopropylbenzene	•	U		U		
1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene 1,179.27 E 10.00 196.13 E 1.66 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.35 11/9/16 0:07 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.91 11/9/16 0:07 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07						
1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:07 1,3-Dichlorobenzene 1,179.27 E 10.00 196.13 E 1.66 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.91 11/9/16 0:07 Naphthalene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07						
1,3-Dichlorobenzene 1,179.27 E 10.00 196.13 E 1.66 11/9/16 0:07 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.91 11/9/16 0:07 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07						
1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.91 11/9/16 0:07 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07				-		
1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:07 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.91 11/9/16 0:07 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07						
1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 Naphthalene U 10.00 U 1.91 11/9/16 0:07 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07	,	U		U		
Naphthalene U 10.00 U 1.91 11/9/16 0:07 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07	·					
1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:07 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07						
2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:07 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07						
1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Γoluene-d8 104 70-130 A16110836 11/9/16 0:07		-		-		
1,2-DCA-d4 93 70-130 A16110836 11/9/16 0:07 Toluene-d8 104 70-130 A16110836 11/9/16 0:07	SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
	1,2-DCA-d4	93	70-130	A16110836		
	Toluene-d8	104	70-130	A16110836		11/9/16 0:07
	Bromofluorobenzene	107	70-130	A16110836		

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Client: Vista GeoScience 130 Capital Drive, Suite C Golden, CO

> Lab File ID: A16110838 Beacon Sample ID: HO200227 Client ID/Sampling Location: SV-29A Date Time Collected: 10/27/16 3:00 PM Matrix: Soil Gas Dilution Factor: 1.0

Sample Volume in Liters: 1.00 Date Received: 11/4/2016 11/9/2016 Analysis Date: 12:53:00 AM

Analysis Time: Beacon Job Number: 3588

COMPOUNDS ug/m3 ug/m3 ppbv Completed Vinyl Chloride U 10.00 U 3.91 11.9/16 0.53 1,1-Dichloroethene U 10.00 U 2.52 11.9/16 0.53 1,1-2-Trichlorotrifluoroethene U 10.00 U 2.52 11.9/16 0.53 Methyl-E-butyl ether U 10.00 U 2.52 11.9/16 0.53 1,1-Dichloroethene U 10.00 U 2.47 11.9/16 0.53 1,1-Dichloroethene U 10.00 U 2.47 11.9/16 0.53 1,1-Dichloroethene U 10.00 U 2.52 11.9/16 0.53 Chloroform U 10.00 U 2.52 11.9/16 0.53 1,2-Dichloroethane U 10.00 U 2.47 11.9/16 0.53 1,2-Dichloroethane U 10.00 U 1.83 11.9/16 0.53 1,2-Trichloroethane U 10.00 U 1.83 11.9/16 0.53 1,4-Dixare 15.		Results	LOQ	Results	LOQ	
1,1-Dichloroethene		ug/m3	ug/m3		ppbv	
1,1,2-Trichlorotrifluoroethane (Fr.113)	Vinyl Chloride	U	10.00	U	3.91	11/9/16 0:53
trans-1,2-Dichloroethene U 10,00 U 2,52 11/9/16 0:53 Methyl-t-butyl ether U 10,00 U 2,77 11/9/16 0:53 cis-1,2-Dichloroethane U 10,00 U 2,47 11/9/16 0:53 Chloroform U 10,00 U 2,52 11/9/16 0:53 Chloroform U 10,00 U 2,05 11/9/16 0:53 1,1,1-Trichloroethane U 10,00 U 2,47 11/9/16 0:53 L,1,1-Trichloroethane U 10,00 U 1.83 11/9/16 0:53 Carbon Tetrachloride U 10,00 U 1.59 11/9/16 0:53 Trichloroethane U 10,00 U 1.86 11/9/16 0:53 Trichloroethane U 10,00 U 1.86 11/9/16 0:53 Trichloroethane U 10,00 U 1.83 11/9/16 0:53 1,4-Dixame 15,66 10,00 U 1.83 11/9/16 0:53 1,2-Dirichloroe		U	10.00	U	2.52	11/9/16 0:53
Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 0:53 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 0:53 cis-1,2-Dichloroethane U 10.00 U 2.52 11/9/16 0:53 Chloroform U 10.00 U 2.52 11/9/16 0:53 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 0:53 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 0:53 Benzene U 10.00 U 1.86 11/9/16 0:53 Trichloroethene U 10.00 U 1.86 11/9/16 0:53 1,4-Dioxane 15.66 10.00 4.35 2.77 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.47 11/9/16 0:53 1,2-Dichor	1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 0:53
1,1-Dichloroethane	trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
cis-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 0:53 Chloroform U 10.00 U 2.05 11/9/16 0:53 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 0:53 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 0:53 Benzene U 10.00 U 1.59 11/9/16 0:53 Benzene U 10.00 U 1.86 11/9/16 0:53 I-choromethane U 10.00 U 1.86 11/9/16 0:53 1,4-Dioxane 15.66 10.00 U 1.83 11/9/16 0:53 1,4-Dioxane 15.66 10.00 U 1.83 11/9/16 0:53 1,1-J.2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.47 11/9/16 0:53 1,2-Tetrachloroethane (EDB)<	Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 0:53
Chloroform U 10.00 U 2.05 11/9/16 0:53 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 0:53 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 0:53 Benzene U 10.00 U 3.13 11/9/16 0:53 Trichloroethene U 10.00 U 1.86 11/9/16 0:53 1,4-Dioxane 15.66 10.00 U 1.83 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 1,2-Trichloroethane U 10.00 U 1.47 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 2.17 11/9/16 0:53 Ethylbe	1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 0:53
1,2-Dichloroethane U 10.00 U 2.47 11/9/16 0:53 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 0:53 Benzene U 10.00 U 3.13 11/9/16 0:53 Trichloroethene U 10.00 U 1.86 11/9/16 0:53 1,4-Dioxane 15.66 10.00 U 1.83 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.83 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.47 11/9/16 0:53 Tetrachloroethane (EDB) U 10.00 U 1.47 11/9/16 0:53 Tetrachloroethane (EDB) U 10.00 U 1.47 11/9/16 0:53	cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
1,1,1-Trichloroethane	Chloroform	U	10.00	U	2.05	11/9/16 0:53
Carbon Tetrachloride U 10.00 U 1.59 11/9/16 0:53 Benzene U 10.00 U 3.13 11/9/16 0:53 Trichloroethene U 10.00 U 1.86 11/9/16 0:53 1,4-Dioxane 15.66 10.00 U 1.83 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Toluene 56.02 10.00 U 1.83 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.47 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.47 11/9/16 0:53 1,2-1-Zetrachloroethane U 10.00 U 1.47 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 1,2-2-Tetrachloro	1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 0:53
Benzene U 10.00 U 3.13 11/9/16 0:53 Trichloroethene U 10.00 U 1.86 11/9/16 0:53 1,4-Dioxane 15.66 10.00 4.35 2.77 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Toluene 56.02 10.00 14.87 2.65 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 Tetrachloroethane U 10.00 U 1.47 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 1,2,3-Tichloroptane<	1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 0:53
Trichloroethene U 10.00 U 1.86 11/9/16 0:53 1,4-Dioxane 15.66 10.00 4.35 2.77 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Toluene 56.02 10.00 U 1.30 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 Tetrachloroethene U 10.00 U 1.47 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloroptopane U 10.00 U 1.66 11/9/16 0:53 1,2,3-Tri	Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 0:53
1,4-Dioxane 15.66 10.00 4.35 2.77 11/9/16 0:53 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Toluene 56.02 10.00 14.87 2.65 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 0:53	Benzene	U	10.00	U	3.13	11/9/16 0:53
1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 0:53 Toluene 56.02 10.00 14.87 2.65 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 Tetrachloroethene U 10.00 U 1.47 11/9/16 0:53 1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ly2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 0:53 1,2,2-Tictrachloroethane U 10.00 U 2.30 11/9/16 0:53 Isoprop	Trichloroethene	U	10.00	U	1.86	11/9/16 0:53
Toluene 56.02 10.00 14.87 2.65 11/9/16 0:53 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 Tetrachloroethene U 10.00 U 1.47 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 I,	1,4-Dioxane	15.66	10.00	4.35	2.77	11/9/16 0:53
1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 0:53 Tetrachloroethene U 10.00 U 1.47 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53	1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 0:53
Tetrachloroethene U 10.00 U 1.47 11/9/16 0:53 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 p & m-Xylene 27.0 10.00 6.22 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 I,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2-Tichlorobenzene U 10.00 U 2.03 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 <td< td=""><td>Toluene</td><td>56.02</td><td>10.00</td><td>14.87</td><td>2.65</td><td>11/9/16 0:53</td></td<>	Toluene	56.02	10.00	14.87	2.65	11/9/16 0:53
1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 p & m-Xylene 27.0 10.00 6.22 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 o-Xylene U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53	1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 0:53
Chlorobenzene U 10.00 U 2.17 11/9/16 0:53 Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 p & m-Xylene 27.0 10.00 6.22 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 o-Xylene U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 I,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trich	Tetrachloroethene	U	10.00	U	1.47	11/9/16 0:53
Ethylbenzene U 10.00 U 2.30 11/9/16 0:53 p & m-Xylene 27.0 10.00 6.22 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 o-Xylene U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.35 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 11/9/16 0:53 11/9/16 0:53 11/9/16 0:53 11/9/16 0:53 11/9/16 0:53 11/9/16 0:53 11/9/16 0:53 11/9/	1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:53
p & m-Xylene 27.0 10.00 6.22 2.30 11/9/16 0:53 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 o-Xylene U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Hrichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53	Chlorobenzene	U	10.00	U	2.17	11/9/16 0:53
1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 0:53 o-Xylene U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 0:53	Ethylbenzene	U	10.00	U	2.30	11/9/16 0:53
o-Xylene U 10.00 U 2.30 11/9/16 0:53 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DC	p & m-Xylene	27.0	10.00	6.22	2.30	11/9/16 0:53
1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 0:53 Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene 10.06 10.00 1.67 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed <t< td=""><td>1,1,2,2-Tetrachloroethane</td><td>U</td><td>10.00</td><td>U</td><td>1.46</td><td>11/9/16 0:53</td></t<>	1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:53
Isopropylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene 10.06 10.00 1.67 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d	o-Xylene	U	10.00	U	2.30	11/9/16 0:53
1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene 10.06 10.00 1.67 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 0:53
1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 0:53 1,3-Dichlorobenzene 10.06 10.00 1.67 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	Isopropylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,3-Dichlorobenzene 10.06 10.00 1.67 1.66 11/9/16 0:53 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 0:53 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,3-Dichlorobenzene	10.06	10.00	1.67	1.66	11/9/16 0:53
1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:53
Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:53
Naphthalene 19.48 10.00 3.72 1.91 11/9/16 0:53 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 0:53 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:53
2-Methylnaphthalene U 10.00 U 1.72 11/9/16 0:53 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53		19.48	10.00	3.72	1.91	11/9/16 0:53
SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:53
SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 0:53
1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	-					
1,2-DCA-d4 94 70-130 A16110838 11/9/16 0:53 Toluene-d8 103 70-130 A16110838 11/9/16 0:53	SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
		94	70-130	A16110838		
Bromofluorobenzene 108 70-130 A16110838 11/9/16 0:53	Toluene-d8	103	70-130	A16110838		11/9/16 0:53
	Bromofluorobenzene	108	70-130	A16110838		11/9/16 0:53

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110840
Beacon Sample ID: GO167057
Client ID/Sampling Location: SV-30A
Date Time Collected: 10/27/16 2:35 PM
Matrix: Soil Gas
Dilution Factor: 1.0

Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 1:39:00 AM

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	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 1:39
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 1:39
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 1:39
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 1:39
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
Chloroform	U	10.00	U	2.05	11/9/16 1:39
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 1:39
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 1:39
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 1:39
Benzene	U	10.00	U	3.13	11/9/16 1:39
Trichloroethene	U	10.00	U	1.86	11/9/16 1:39
1,4-Dioxane	11.0	10.00	3.05	2.77	11/9/16 1:39
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 1:39
Toluene	42.76	10.00	11.35	2.65	11/9/16 1:39
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 1:39
Tetrachloroethene	U	10.00	U	1.47	11/9/16 1:39
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 1:39
Chlorobenzene	U	10.00	U	2.17	11/9/16 1:39
Ethylbenzene	U	10.00	U	2.30	11/9/16 1:39
p & m-Xylene	23.3	10.00	5.37	2.30	11/9/16 1:39
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 1:39
o-Xylene	U	10.00	U	2.30	11/9/16 1:39
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 1:39
Isopropylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 1:39
Naphthalene	13.26	10.00	2.53	1.91	11/9/16 1:39
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 1:39
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 1:39
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110840		11/9/16 1:39
Toluene-d8	103	70-130	A16110840		11/9/16 1:39
Bromofluorobenzene	107	70-130	A16110840		11/9/16 1:39
DIGITALITATION	107	10-130	73101100 4 0		11/9/10 1.37

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110842
Beacon Sample ID: HO200236
Client ID/Sampling Location: SV-31A
Date Time Collected: 10/27/16 2:03 PM
Matrix: Soil Gas
Dilution Factor: 1.0

Sample Volume in Liters: 1.00

Date Received: 11/4/2016

Analysis Date: 11/9/2016

Analysis Time: 2:26:00 AM

Beacon Jou Number.	3300				
,	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 2:26
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 2:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 2:26
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 2:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
Chloroform	U	10.00	U	2.05	11/9/16 2:26
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 2:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 2:26
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 2:26
Benzene	U	10.00	U	3.13	11/9/16 2:26
Trichloroethene	U	10.00	U	1.86	11/9/16 2:26
1,4-Dioxane	20.36	10.00	5.65	2.77	11/9/16 2:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 2:26
Toluene	40.32	10.00	10.7	2.65	11/9/16 2:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 2:26
Tetrachloroethene	U	10.00	U	1.47	11/9/16 2:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 2:26
Chlorobenzene	U	10.00	U	2.17	11/9/16 2:26
Ethylbenzene	U	10.00	U	2.30	11/9/16 2:26
p & m-Xylene	20.18	10.00	4.65	2.30	11/9/16 2:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 2:26
o-Xylene	U	10.00	U	2.30	11/9/16 2:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 2:26
Isopropylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 2:26
Naphthalene	12.89	10.00	2.46	1.91	11/9/16 2:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 2:26
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 2:26
CLIDDOCATEC	D 4 D	T : :	I 1 P'1 IP		0 1 1
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110842		11/9/16 2:26
Toluene-d8	103	70-130	A16110842		11/9/16 2:26
Bromofluorobenzene	108	70-130	A16110842		11/9/16 2:26

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110844
Beacon Sample ID: GO164954
Client ID/Sampling Location: SV-32A
Date Time Collected: 10/27/16 1:36 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 3:13:00 AM

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Beacon Job Number:

LOQ Results LOQ Results COMPOUNDS Completed ug/m3 ug/m3 ppbv ppbv Vinyl Chloride 3.91 U 10.00 U 11/9/16 3:13 1,1-Dichloroethene 10.00 U 2.52 11/9/16 3:13 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/9/16 3:13 trans-1,2-Dichloroethene 10.00 2.52 U 11/9/16 3:13 Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 3:13 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 3:13 cis-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 3:13 U 2.05 Chloroform 10.00 U 11/9/16 3:13 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 3:13 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 3:13 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 3:13 Benzene U 10.00 U 3.13 11/9/16 3:13 Trichloroethene U 10.00 U 1.86 11/9/16 3:13 1,4-Dioxane 13.64 10.00 3.79 2.77 11/9/16 3:13 1,1,2-Trichloroethane 10.00 U 1.83 IJ 11/9/16 3:13 48.76 12.94 Toluene 10.00 2.65 11/9/16 3:13 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 3:13 Tetrachloroethene U 10.00 U 1.47 11/9/16 3:13 1,1,2-Tetrachloroethane U 10.00 1.46 П 11/9/16 3:13 Chlorobenzene U U 2.17 10.00 11/9/16 3:13 U 2.30 Ethylbenzene 10.00 П 11/9/16 3:13 p & m-Xylene 22.89 5.27 2.30 10.00 11/9/16 3:13 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 3:13 o-Xylene U 10.00 U 2.30 11/9/16 3:13 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 3:13 Isopropylbenzene U 2.03 10.00 U 11/9/16 3:13 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 3:13 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 3:13 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 3:13 U 1,4-Dichlorobenzene 10.00 U 1.66 11/9/16 3:13 U 10.00 U 1,2-Dichlorobenzene 1.66 11/9/16 3:13 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 3:13 12.38 2.36 Naphthalene 10.00 1.91 11/9/16 3:13 1.35 1,2,3-Trichlorobenzene U 10.00 U 11/9/16 3:13 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 3:13 **SURROGATES** Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 93 70-130 A16110844 11/9/16 3:13 Toluene-d8 103 70-130 A16110844 11/9/16 3:13 Bromofluorobenzene 70-130 A16110844 11/9/16 3:13 108

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110903
Beacon Sample ID: LCS_161109a

Client ID/Sampling Location:
Date Time Collected:

Matrix:

Dilution Factor: 1.0 Sample Volume in Liters: 1.00

Date Received:

Analysis Date: 11/9/2016 Analysis Time: 12:07:00 PM

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	92%	%REC	11/9/16 12:07	80-120
1,1-Dichloroethene	100%	%REC	11/9/16 12:07	80-120
1,1,2-Trichlorotrifluoroethane (Fr.113)	83%	%REC	11/9/16 12:07	80-120
trans-1,2-Dichloroethene	103%	%REC	11/9/16 12:07	80-120
Methyl-t-butyl ether	89%	%REC	11/9/16 12:07	80-120
1,1-Dichloroethane	102%	%REC	11/9/16 12:07	80-120
cis-1,2-Dichloroethene	104%	%REC	11/9/16 12:07	80-120
Chloroform	101%	%REC	11/9/16 12:07	80-120
1,2-Dichloroethane	98%	%REC	11/9/16 12:07	80-120
1,1,1-Trichloroethane	91%	%REC	11/9/16 12:07	80-120
Carbon Tetrachloride	93%	%REC	11/9/16 12:07	80-120
Benzene	98%	%REC	11/9/16 12:07	80-120
Trichloroethene	105%	%REC	11/9/16 12:07	80-120
1,4-Dioxane	106%	%REC	11/9/16 12:07	80-120
1,1,2-Trichloroethane	105%	%REC	11/9/16 12:07	80-120
Toluene	114%	%REC	11/9/16 12:07	80-120
1,2-Dibromoethane (EDB)	111%	%REC	11/9/16 12:07	80-120
Tetrachloroethene	94%	%REC	11/9/16 12:07	80-120
1,1,1,2-Tetrachloroethane	99%	%REC	11/9/16 12:07	80-120
Chlorobenzene	100%	%REC	11/9/16 12:07	80-120
Ethylbenzene	103%	%REC	11/9/16 12:07	80-120
p & m-Xylene	105%	%REC	11/9/16 12:07	80-120
1,1,2,2-Tetrachloroethane	97%	%REC	11/9/16 12:07	80-120
o-Xylene	99%	%REC	11/9/16 12:07	80-120
1,2,3-Trichloropropane	95%	%REC	11/9/16 12:07	80-120
Isopropylbenzene	98%	%REC	11/9/16 12:07	80-120
1,3,5-Trimethylbenzene	111%	%REC	11/9/16 12:07	80-120
1,2,4-Trimethylbenzene	102%	%REC	11/9/16 12:07	80-120
1,3-Dichlorobenzene	104%	%REC	11/9/16 12:07	80-120
1,4-Dichlorobenzene	101%	%REC	11/9/16 12:07	80-120
1,2-Dichlorobenzene	105%	%REC	11/9/16 12:07	80-120
1,2,4-Trichlorobenzene	112%	%REC	11/9/16 12:07	80-120
Naphthalene	109%	%REC	11/9/16 12:07	80-120
1,2,3-Trichlorobenzene	109%	%REC	11/9/16 12:07	80-120
2-Methylnaphthalene	99%	%REC	11/9/16 12:07	80-120
SURROGATES	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	105	70-130	11/9/16 12:07	A16110903
Toluene-d8	109	70-130	11/9/16 12:07	A16110903
Bromofluorobenzene	109	70-130	11/9/16 12:07	A16110903
Diomonuorouenzene	109	/0-130	11/9/10 12:0/	A10110903

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110904
Beacon Sample ID: LB_161109a

Client ID/Sampling Location:

Date Time Collected:

Matrix: Dilution Factor:

Sample Volume in Liters: 1.00

Date Received:

Analysis Date: 11/9/2016 Analysis Time: 12:31:00 PM

1.0

COMPOUNDS ug/m3 ug/m3 ppbv Completed Vinyl Chloride U 10.00 U 3.91 11/9/16 12:31 1,1-Dichloroethene U 10.00 U 2.52 11/9/16 12:31 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 2.52 11/9/16 12:31 Methyl-1-butyl ether U 10.00 U 2.52 11/9/16 12:31 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 12:31 1,1-Dichloroethane U 10.00 U 2.52 11/9/16 12:31 1,1-Trichloroethane U 10.00 U 2.52 11/9/16 12:31 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 12:31 1,2-Dichloroethane U 10.00 U 1.83 11/9/16 12:31 1,2-Dichloroethane U 10.00 U 1.83 11/9/16 12:31 Benzene U 10.00 U 1.86 11/9/16 12:31 1,4-Dicxane <th></th> <th>Results</th> <th>LOQ</th> <th>Results</th> <th>LOQ</th> <th></th>		Results	LOQ	Results	LOQ	
1,1-Dichloroethene	COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
1,1,2-Trichlorotrifluoroethane (Fr.113)	Vinyl Chloride	U	10.00	U		11/9/16 12:31
trans-1,2-Dichloroethene	1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 12:31 I,I-Dichloroethane U 10.00 U 2.47 11/9/16 12:31 cis-1,2-Dichloroethane U 10.00 U 2.52 11/9/16 12:31 Chloroform U 10.00 U 2.65 11/9/16 12:31 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 12:31 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 12:31 Benzene U 10.00 U 1.86 11/9/16 12:31 Trichloroethane U 10.00 U 1.86 11/9/16 12:31 1,4-Dioxane U 10.00 U 2.77 11/9/16 12:31 1,1,12-Tichloroethane U 10.00 U 2.65 11/9/16 12:31 Toluene U 10.00 U 2.65 11/9/16 12:31 Tetrachloroethane (ED	1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 12:31
1,1-Dichloroethane	trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
cis-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 12:31 Chloroform U 10.00 U 2.47 11/9/16 12:31 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 12:31 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 12:31 Benzene U 10.00 U 3.13 11/9/16 12:31 Trichloroethene U 10.00 U 1.86 11/9/16 12:31 1,4-Dioxane U 10.00 U 2.77 11/9/16 12:31 1,1,2-Trichloroethane U 10.00 U 2.65 11/9/16 12:31 Toluene U 10.00 U 1.83 11/9/16 12:31 Toluene U 10.00 U 1.65 11/9/16 12:31 Tetrachloroethane (EDB) U 10.00 U 1.47 11/9/16 12:31 Tetrachloroethane	Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 12:31
Chloroform U 10.00 U 2.05 11/9/16 12:31 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 12:31 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 12:31 Benzene U 10.00 U 3.13 11/9/16 12:31 Trichloroethene U 10.00 U 2.77 11/9/16 12:31 1,4-Dioxane U 10.00 U 2.77 11/9/16 12:31 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Toluene U 10.00 U 2.65 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 12:31 Ethylbenzene U 10.00 U 2.17 11/9/16 12:31 1,1,2,2-Tetrachloroet	1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 12:31
1,2-Dichloroethane U 10.00 U 2.47 11/9/16 12:31 1,1,1-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 12:31 Benzene U 10.00 U 3.13 11/9/16 12:31 Trichloroethene U 10.00 U 1.86 11/9/16 12:31 1,4-Dioxane U 10.00 U 2.77 11/9/16 12:31 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 2.65 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.47 11/9/16 12:31 1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31<	cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
1,1,1-Trichloroethane	Chloroform	U	10.00	U	2.05	11/9/16 12:31
Carbon Tetrachloride U 10.00 U 1.59 11/9/16 12:31 Benzene U 10.00 U 3.13 11/9/16 12:31 Trichloroethene U 10.00 U 1.86 11/9/16 12:31 1,4-Dioxane U 10.00 U 2.77 11/9/16 12:31 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Toluene U 10.00 U 2.65 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 1,2,2-Tetrachloroeth	1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 12:31
Benzene	1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 12:31
Trichloroethene U 10.00 U 1.86 11/9/16 12:31 1,4-Dioxane U 10.00 U 2.77 11/9/16 12:31 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Toluene U 10.00 U 2.65 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 1,1,2-Tetrachloroethene U 10.00 U 1.47 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloroptopane U 10.00 U 2.30 11/9/16 12:31 1,	Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 12:31
1,4-Dioxane U 10.00 U 2.77 11/9/16 12:31 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Toluene U 10.00 U 2.65 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 Tetrachloroethene U 10.00 U 1.47 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trich	Benzene	U	10.00	U	3.13	11/9/16 12:31
1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 12:31 Toluene U 10.00 U 2.65 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 Tetrachloroethene U 10.00 U 1.47 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31	Trichloroethene	U	10.00	U	1.86	11/9/16 12:31
Toluene U 10.00 U 2.65 11/9/16 12:31 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 Tetrachloroethene U 10.00 U 1.47 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloroptoethane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloroptopane U 10.00 U 2.30 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Pichlorobenzene U 10.00 U 2.03 11/9/16 12:31	1,4-Dioxane	U	10.00	U	2.77	11/9/16 12:31
1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 12:31 Tetrachloroethene U 10.00 U 1.47 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropthane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 12:31 1sopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1sopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31	1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 12:31
Tetrachloroethene U 10.00 U 1.47 11/9/16 12:31 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 1,2,3-Trichloroptopane U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloroptopane U 10.00 U 2.03 11/9/16 12:31 1sopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 <	Toluene	U	10.00	U	2.65	11/9/16 12:31
1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 o-Xylene U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31 I,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31	1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 12:31
Chlorobenzene U 10.00 U 2.17 11/9/16 12:31 Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 o-Xylene U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.56 11/9/16 12:31 <td< td=""><td>Tetrachloroethene</td><td>U</td><td>10.00</td><td>U</td><td>1.47</td><td>11/9/16 12:31</td></td<>	Tetrachloroethene	U	10.00	U	1.47	11/9/16 12:31
Ethylbenzene U 10.00 U 2.30 11/9/16 12:31 p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 o-Xylene U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-A-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31	1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 12:31
p & m-Xylene U 10.00 U 2.30 11/9/16 12:31 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 o-Xylene U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.35 11/9/16 12:31	Chlorobenzene	U	10.00	U	2.17	11/9/16 12:31
1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 12:31 o-Xylene U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed	Ethylbenzene	U	10.00	U	2.30	11/9/16 12:31
o-Xylene U 10.00 U 2.30 11/9/16 12:31 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.35 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31	p & m-Xylene	U	10.00	U	2.30	11/9/16 12:31
1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 12:31 Isopropylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 12:31
Isopropylbenzene	o-Xylene	U	10.00	U	2.30	11/9/16 12:31
1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 12:31
1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 12:31 1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	Isopropylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,3-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 12:31 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31			10.00	U	1.66	11/9/16 12:31
1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
Naphthalene U 10.00 U 1.91 11/9/16 12:31 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 12:31
1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 12:31 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 12:31 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	Naphthalene	U	10.00	U	1.91	11/9/16 12:31
SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31		U	10.00	U	1.35	11/9/16 12:31
SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 12:31
1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31						
1,2-DCA-d4 102 70-130 A16110904 11/9/16 12:31	SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
Toluene-d8 106 70-130 A16110904 11/9/16 12:31		102	70-130	A16110904		
	Toluene-d8	106	70-130	A16110904		11/9/16 12:31
Bromofluorobenzene 101 70-130 A16110904 11/9/16 12:31	Bromofluorobenzene	101	70-130	A16110904		11/9/16 12:31

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110905
Beacon Sample ID: LCSD_161109a

Client ID/Sampling Location: Date Time Collected:

Matrix:
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received:

Analysis Date: 11/9/2016 Analysis Time: 12:54:00 PM

Beacon Job Number.				
	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	89%	%REC	11/9/16 12:54	70-130
1,1-Dichloroethene	90%	%REC	11/9/16 12:54	70-130
1,1,2-Trichlorotrifluoroethane (Fr.113)	74%	%REC	11/9/16 12:54	70-130
trans-1,2-Dichloroethene	103%	%REC	11/9/16 12:54	70-130
Methyl-t-butyl ether	86%	%REC	11/9/16 12:54	70-130
1,1-Dichloroethane	106%	%REC	11/9/16 12:54	70-130
cis-1,2-Dichloroethene	104%	%REC	11/9/16 12:54	70-130
Chloroform	104%	%REC	11/9/16 12:54	70-130
1,2-Dichloroethane	97%	%REC	11/9/16 12:54	70-130
1,1,1-Trichloroethane	89%	%REC	11/9/16 12:54	70-130
Carbon Tetrachloride	89%	%REC	11/9/16 12:54	70-130
Benzene	100%	%REC	11/9/16 12:54	70-130
Trichloroethene	106%	%REC	11/9/16 12:54	70-130
1,4-Dioxane	108%	%REC	11/9/16 12:54	70-130
1,1,2-Trichloroethane	106%	%REC	11/9/16 12:54	70-130
Toluene	108%	%REC	11/9/16 12:54	70-130
1,2-Dibromoethane (EDB)	111%	%REC	11/9/16 12:54	70-130
Tetrachloroethene	97%	%REC	11/9/16 12:54	70-130
1,1,1,2-Tetrachloroethane	100%	%REC	11/9/16 12:54	70-130
Chlorobenzene	102%	%REC	11/9/16 12:54	70-130
Ethylbenzene	100%	%REC	11/9/16 12:54	70-130
p & m-Xylene	99%	%REC	11/9/16 12:54	70-130
1,1,2,2-Tetrachloroethane	100%	%REC	11/9/16 12:54	70-130
o-Xylene	97%	%REC	11/9/16 12:54	70-130
1,2,3-Trichloropropane	97%	%REC	11/9/16 12:54	70-130
Isopropylbenzene	98%	%REC	11/9/16 12:54	70-130
1,3,5-Trimethylbenzene	108%	%REC	11/9/16 12:54	70-130
1,2,4-Trimethylbenzene	99%	%REC	11/9/16 12:54	70-130
1,3-Dichlorobenzene	102%	%REC	11/9/16 12:54	70-130
1,4-Dichlorobenzene	104%	%REC	11/9/16 12:54	70-130
1,2-Dichlorobenzene	103%	%REC	11/9/16 12:54	70-130
1,2,4-Trichlorobenzene	111%	%REC	11/9/16 12:54	70-130
Naphthalene	106%	%REC	11/9/16 12:54	70-130
1,2,3-Trichlorobenzene	104%	%REC	11/9/16 12:54	70-130
2-Methylnaphthalene	98%	%REC	11/9/16 12:54	70-130
SURROGATES	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	99	70-130	11/9/16 12:54	A16110905
Toluene-d8	110	70-130	11/9/16 12:54	A16110905
Bromofluorobenzene	104	70-130	11/9/16 12:54	A16110905

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110906
Beacon Sample ID: H0199658
Client ID/Sampling Location: SV-08-04
Date Time Collected: 10/31/16 4:14 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/8/2016 Analysis Date: 11/9/2016 Analysis Time: 1:19:00 PM Beacon Job Number: 3588B

	Dagulta	1.00	D. a. a. léa	1.00	
COMPOUNDS	Results	LOQ	Results	LOQ	C1-4-1
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 13:19
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 13:19
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 13:19
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 13:19
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
Chloroform	U	10.00	U	2.05	11/9/16 13:19
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 13:19
1,1,1-Trichloroethane	13.15	10.00	2.41	1.83	11/9/16 13:19
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 13:19
Benzene	10.57	10.00	3.31	3.13	11/9/16 13:19
Trichloroethene	U	10.00	U	1.86	11/9/16 13:19
1,4-Dioxane	15.33	10.00	4.25	2.77	11/9/16 13:19
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 13:19
Toluene	57.07	10.00	15.15	2.65	11/9/16 13:19
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 13:19
Tetrachloroethene	Ü	10.00	Ü	1.47	11/9/16 13:19
1,1,1,2-Tetrachloroethane	Ü	10.00	Ü	1.46	11/9/16 13:19
Chlorobenzene	Ü	10.00	Ü	2.17	11/9/16 13:19
Ethylbenzene	Ü	10.00	U	2.30	11/9/16 13:19
p & m-Xylene	11.15	10.00	2.57	2.30	11/9/16 13:19
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 13:19
o-Xylene	U	10.00	U	2.30	11/9/16 13:19
1,2,3-Trichloropropane	Ü	10.00	U	1.66	11/9/16 13:19
Isopropylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,3-Dichlorobenzene	108.32	10.00	18.02	1.66	11/9/16 13:19
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 13:19
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 13:19
	U		U		
1,2,4-Trichlorobenzene		10.00		1.35	11/9/16 13:19
Naphthalene	U	10.00	U	1.91	11/9/16 13:19
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 13:19
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 13:19
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110906		11/9/16 13:19
Toluene-d8	103	70-130	A16110906		11/9/16 13:19
Bromofluorobenzene	108	70-130	A16110906		11/9/16 13:19

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110908
Beacon Sample ID: H0199622
Client ID/Sampling Location: SV-08-03
Date Time Collected: 10/31/16 4:52 PM
Matrix: Soil Gas
Dilution Factor: 1.0

Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 2:09:00 PM

3588B

Beacon Job Number:

LOQ LOQ Results Results COMPOUNDS Completed ug/m3 ug/m3 ppbv ppbv Vinyl Chloride 3.91 U 10.00 U 11/9/16 14:09 1,1-Dichloroethene 10.00 U 2.52 11/9/16 14:09 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 1.30 11/9/16 14:09 trans-1,2-Dichloroethene 10.00 2.52 U U 11/9/16 14:09 Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 14:09 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 14:09 cis-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 14:09 2.05 Chloroform U 10.00 U 11/9/16 14:09 1,2-Dichloroethane H 10.00 П 2.47 11/9/16 14:09 1,1,1-Trichloroethane 16.02 10.00 2.94 1.83 11/9/16 14:09 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 14:09 Benzene 10.18 10.00 3.19 3.13 11/9/16 14:09 Trichloroethene U 10.00 U 1.86 11/9/16 14:09 1,4-Dioxane 12.82 10.00 3.56 2.77 11/9/16 14:09 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 14:09 52.86 14.03 Toluene 10.00 2.65 11/9/16 14:09 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 14:09 Tetrachloroethene U 10.00 U 1.47 11/9/16 14:09 1,1,2-Tetrachloroethane U 10.00 1.46 П 11/9/16 14:09 Chlorobenzene U U 2.17 10.00 11/9/16 14:09 U 2.30 Ethylbenzene 10.00 U 11/9/16 14:09 U U 2.30 p & m-Xylene 10.00 11/9/16 14:09 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 14:09 o-Xylene U 10.00 U 2.30 11/9/16 14:09 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 14:09 Isopropylbenzene U U 2.03 10.00 11/9/16 14:09 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 14:09 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 14:09 1,207.58 E 1,3-Dichlorobenzene 10.00 200.84 E 1.66 11/9/16 14:09 1,4-Dichlorobenzene U 10.00 1.66 U 11/9/16 14:09 U 10.00 U 1,2-Dichlorobenzene 1.66 11/9/16 14:09 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 14:09 Naphthalene U 10.00 U 1.91 11/9/16 14:09 1.35 1,2,3-Trichlorobenzene U 10.00 U 11/9/16 14:09 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 14:09 **SURROGATES** Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110908 11/9/16 14:09 11/9/16 14:09 Toluene-d8 105 70-130 A16110908 Bromofluorobenzene 105 70-130 11/9/16 14:09 A16110908

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110910
Beacon Sample ID: H0238242
Client ID/Sampling Location: SV-07-01
Date Time Collected: 11/2/16 11:35 AM
Matrix: Soil Gas

Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 2:56:00 PM

Beacon Job Number: 3588B

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 14:56
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 14:56
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 14:56
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 14:56
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
Chloroform	U	10.00	U	2.05	11/9/16 14:56
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 14:56
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 14:56
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 14:56
Benzene	U	10.00	U	3.13	11/9/16 14:56
Trichloroethene	U	10.00	U	1.86	11/9/16 14:56
1,4-Dioxane	U	10.00	U	2.77	11/9/16 14:56
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 14:56
Toluene	U	10.00	U	2.65	11/9/16 14:56
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 14:56
Tetrachloroethene	U	10.00	U	1.47	11/9/16 14:56
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:56
Chlorobenzene	U	10.00	U	2.17	11/9/16 14:56
Ethylbenzene	U	10.00	U	2.30	11/9/16 14:56
p & m-Xylene	U	10.00	U	2.30	11/9/16 14:56
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:56
o-Xylene	U	10.00	U	2.30	11/9/16 14:56
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 14:56
Isopropylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:56
Naphthalene	U	10.00	U	1.91	11/9/16 14:56
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:56
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 14:56
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110910		11/9/16 14:56
Toluene-d8	105	70-130	A16110910		11/9/16 14:56
Bromofluorobenzene	105	70-130	A16110910		11/9/16 14:56

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110912
Beacon Sample ID: H0234516
Client ID/Sampling Location: SV-07-02
Date Time Collected: 11/2/16 12:32 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 3:42:00 PM
Beacon Job Number: 3588B

Beacon Job Number.	3366B				
,	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 15:42
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 15:42
rans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 15:42
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 15:42
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
Chloroform	U	10.00	U	2.05	11/9/16 15:42
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 15:42
1,1,1-Trichloroethane	17.4	10.00	3.19	1.83	11/9/16 15:42
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 15:42
Benzene	11.89	10.00	3.72	3.13	11/9/16 15:42
Trichloroethene	U	10.00	U	1.86	11/9/16 15:42
1,4-Dioxane	U	10.00	U	2.77	11/9/16 15:42
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 15:42
Toluene	126.72	10.00	33.63	2.65	11/9/16 15:42
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 15:42
Γetrachloroethene	U	10.00	U	1.47	11/9/16 15:42
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 15:42
Chlorobenzene	U	10.00	U	2.17	11/9/16 15:42
Ethylbenzene	14.41	10.00	3.32	2.30	11/9/16 15:42
2 & m-Xylene	39.65	10.00	9.13	2.30	11/9/16 15:42
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 15:42
o-Xylene	U	10.00	U	2.30	11/9/16 15:42
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 15:42
Isopropylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,3-Dichlorobenzene	1,013.24 E	10.00	168.52 E	1.66	11/9/16 15:42
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 15:42
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 15:42
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 15:42
Naphthalene	U	10.00	U	1.91	11/9/16 15:42
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 15:42
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 15:42
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	98	70-130	A16110912		11/9/16 15:42
Γoluene-d8	105	70-130	A16110912		11/9/16 15:42
Bromofluorobenzene					

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110914
Beacon Sample ID: G0115976
Client ID/Sampling Location: SV-07-04
Date Time Collected: 11/2/16 12:59 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00

Date Received: 11/8/2016 Analysis Date: 11/9/2016 Analysis Time: 4:29:00 PM Beacon Job Number: 3588B

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 16:29
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 16:29
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 16:29
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 16:29
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
Chloroform	U	10.00	U	2.05	11/9/16 16:29
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 16:29
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 16:29
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 16:29
Benzene	U	10.00	U	3.13	11/9/16 16:29
Trichloroethene	U	10.00	U	1.86	11/9/16 16:29
1,4-Dioxane	U	10.00	U	2.77	11/9/16 16:29
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 16:29
Toluene	121.69	10.00	32.29	2.65	11/9/16 16:29
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 16:29
Tetrachloroethene	U	10.00	U	1.47	11/9/16 16:29
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 16:29
Chlorobenzene	U	10.00	U	2.17	11/9/16 16:29
Ethylbenzene	16.45	10.00	3.79	2.30	11/9/16 16:29
p & m-Xylene	43.8	10.00	10.09	2.30	11/9/16 16:29
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 16:29
o-Xylene	10.91	10.00	2.51	2.30	11/9/16 16:29
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 16:29
Isopropylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,3-Dichlorobenzene	1,109.66 E	10.00	184.55 E	1.66	11/9/16 16:29
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 16:29
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 16:29
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 16:29
Naphthalene	U	10.00	U	1.91	11/9/16 16:29
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 16:29
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 16:29
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110914		11/9/16 16:29
Toluene-d8	104	70-130	A16110914		11/9/16 16:29
Bromofluorobenzene	106	70-130	A16110914		11/9/16 16:29

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110916 Beacon Sample ID: G0115955 Client ID/Sampling Location: SV-07-03 Date Time Collected: 11/2/16 1:21 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/9/2016

Analysis Time: 5:16:00 PM Beacon Job Number: 3588B

Deacon voo i vanioei:	Results	LOQ	Results	LOO	
COMPOLINDS					Completed
COMPOUNDS Vinyl Chloride	ug/m3 U	ug/m3 10.00	ppbv U	9pbv 3.91	Completed 11/9/16 17:16
	U	10.00	U		
1,1-Dichloroethene				2.52	11/9/16 17:16
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 17:16
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 17:16
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 17:16
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
Chloroform	U	10.00	U	2.05	11/9/16 17:16
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 17:16
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 17:16
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 17:16
Benzene	10.85	10.00	3.4	3.13	11/9/16 17:16
Trichloroethene	U	10.00	U	1.86	11/9/16 17:16
1,4-Dioxane	12.68	10.00	3.52	2.77	11/9/16 17:16
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 17:16
Toluene	93.8	10.00	24.89	2.65	11/9/16 17:16
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 17:16
Tetrachloroethene	U	10.00	U	1.47	11/9/16 17:16
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 17:16
Chlorobenzene	U	10.00	U	2.17	11/9/16 17:16
Ethylbenzene	14.04	10.00	3.23	2.30	11/9/16 17:16
p & m-Xylene	37.35	10.00	8.6	2.30	11/9/16 17:16
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 17:16
o-Xylene	U	10.00	U	2.30	11/9/16 17:16
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 17:16
Isopropylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,3-Dichlorobenzene	1,127.89 E	10.00	187.59 E	1.66	11/9/16 17:16
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 17:16
1,2-Dichlorobenzene	Ü	10.00	U	1.66	11/9/16 17:16
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 17:16
Naphthalene	U	10.00	U	1.91	11/9/16 17:16
1,2,3-Trichlorobenzene	Ü	10.00	U	1.35	11/9/16 17:16
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 17:16
2 Methymaphalaiche		10.00	<u> </u>	1./2	11///101/.10
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110916		11/9/16 17:16
Toluene-d8	103	70-130	A16110916		11/9/16 17:16
Bromofluorobenzene	105	70-130	A16110916		11/9/16 17:16
2	100	,0150	.110110710		11/2/10 17.10

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110918 Beacon Sample ID: G0166889 Client ID/Sampling Location: SV-08-05 Date Time Collected: 11/2/16 1:52 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/9/2016

Analysis Time: 6:05:00 PM Beacon Job Number: 3588B

Beacon Job Nulliber.	3366B				
,	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 18:05
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 18:05
rans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 18:05
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 18:05
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
Chloroform	U	10.00	U	2.05	11/9/16 18:05
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 18:05
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 18:05
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 18:05
Benzene	U	10.00	U	3.13	11/9/16 18:05
Trichloroethene	U	10.00	U	1.86	11/9/16 18:05
1,4-Dioxane	U	10.00	U	2.77	11/9/16 18:05
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 18:05
Toluene	65.96	10.00	17.5	2.65	11/9/16 18:05
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 18:05
Tetrachloroethene	U	10.00	U	1.47	11/9/16 18:05
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:05
Chlorobenzene	U	10.00	U	2.17	11/9/16 18:05
Ethylbenzene	11.07	10.00	2.55	2.30	11/9/16 18:05
p & m-Xylene	30.27	10.00	6.97	2.30	11/9/16 18:05
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:05
o-Xylene	U	10.00	U	2.30	11/9/16 18:05
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 18:05
Isopropylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,3-Dichlorobenzene	904.26 E	10.00	150.39 E	1.66	11/9/16 18:05
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:05
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:05
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:05
Naphthalene	59.69	10.00	11.39	1.91	11/9/16 18:05
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:05
2-Methylnaphthalene	16.43	10.00	2.82	1.72	11/9/16 18:05
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110918		11/9/16 18:05
Γoluene-d8	104	70-130	A16110918		11/9/16 18:05

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Client: Vista GeoScience 130 Capital Drive, Suite C Golden, CO

> Lab File ID: A16110920 Beacon Sample ID: H0232630 Client ID/Sampling Location: SV-08-06 Date Time Collected: 11/2/16 2:15 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/9/2016

Analysis Time: 6:51:00 PM Beacon Job Number: 3588B

COMPOUNDS ug/m3 ug/m3 ppbv Completed Vinyl Chloride U 10.00 U 3.91 11/9/16 18:51 1,1-Dichloroethene U 10.00 U 2.52 11/9/16 18:51 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10.00 U 2.52 11/9/16 18:51 trans-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 18:51 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 1,2-Dichloroethane U 10.00 U 2.52 11/9/16 18:51 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 1,1,1-Trichloroethane 18.38 10.00 3.37 1.83 11/9/16 18:51 1,1,1-Trichloroethane U 10.00 U 1.86 11/9/16 18:51 Benzene U 10.00 U 1.86 11/9/16 18:51 <t< th=""><th></th><th>Results</th><th>LOQ</th><th>Results</th><th>LOQ</th><th></th></t<>		Results	LOQ	Results	LOQ	
Vinyl Chloride	COMPOUNDS					Completed
1,1-Dichloroethene U 10,00 U 2,52 11/9/16 18:51 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10,00 U 1,30 11/9/16 18:51 Methyl-t-butyl ether U 10,00 U 2,77 11/9/16 18:51 1,1-Dichloroethane U 10,00 U 2,47 11/9/16 18:51 1,1-Dichloroethane U 10,00 U 2,47 11/9/16 18:51 Chloroform U 10,00 U 2,52 11/9/16 18:51 1,2-Dichloroethane U 10,00 U 2,47 11/9/16 18:51 1,1-Trichloroethane U 10,00 U 2,47 11/9/16 18:51 1,1,1-Trichloroethane U 10,00 U 1,59 11/9/16 18:51 Carbon Tetrachloride U 10,00 U 1,59 11/9/16 18:51 Trichloroethane U 10,00 U 1,59 11/9/16 18:51 1,4-Dixane U 10,00 U 2,77 11/9/16 18:51 1,1,2-Trichloroethane U 10,00 U 1,83 11/9/16 1						
1,1,2-Trichlorotrifluoroethane (Fr.113)	•	U				
trans-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 18:51 Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 18:51 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 Cis-1,2-Dichloroethane U 10.00 U 2.52 11/9/16 18:51 L2-Dichloroethane U 10.00 U 2.05 11/9/16 18:51 1,1,1-Trichloroethane 18.38 10.00 3.37 1.83 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Benzene U 10.00 U 3.13 11/9/16 18:51 Trichloroethene U 10.00 U 3.13 11/9/16 18:51 1,4-Dioxane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 Tetrachloroethane (EDB) U 10.00 U 1.47 11/9/16 18:51 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 18:51 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 Chloroform U 10.00 U 2.52 11/9/16 18:51 Chloroform U 10.00 U 2.05 11/9/16 18:51 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 3.13 11/9/16 18:51 Benzene U 10.00 U 3.13 11/9/16 18:51 Trichloroethane U 10.00 U 2.77 11/9/16 18:51 Trichloroethane U 10.00 U 1.83 11/9/16 18:51 Toluene 70.62 10.00 18.74 2.65 11/9/16 18:51 Tetrachloroethane				U	2.52	11/9/16 18:51
1,1-Dichloroethane						
cis-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 18:51 Chloroform U 10.00 U 2.65 11/9/16 18:51 1,1,1-Trichloroethane U 10.00 U 2.47 11/9/16 18:51 1,1,1-Trichloroethane 18.38 10.00 3.37 1.83 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Benzene U 10.00 U 3.13 11/9/16 18:51 Trichloroethene U 10.00 U 3.13 11/9/16 18:51 1,4-Dioxane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.83 11/9/16 18:51 Tetrachloroethane U 10.00 U 1.47 11/9/16 18:51 Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 <th< td=""><td>1,1-Dichloroethane</td><td></td><td></td><td></td><td></td><td></td></th<>	1,1-Dichloroethane					
Chloroform U 10.00 U 2.05 11/9/16 18:51 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 1,1,1-Trichloroethane 18.38 10.00 3.37 1.83 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Benzene U 10.00 U 3.13 11/9/16 18:51 Trichloroethene U 10.00 U 2.77 11/9/16 18:51 1,4-Dioxane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 Toluene 70.62 10.00 18.74 2.65 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 2.17 2.30 11/9/16 18:51	cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:51
1,2-Dichloroethane U 10.00 U 2.47 11/9/16 18:51 1,1,1-Trichloroethane 18.38 10.00 3.37 1.83 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Benzene U 10.00 U 3.13 11/9/16 18:51 Trichloroethane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.83 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.47 11/9/16 18:51 Tetrachloroethane U 10.00 U 1.47 11/9/16 18:51 Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 <	Chloroform					
1,1,1-Trichloroethane 18.38 10.00 3.37 1.83 11/9/16 18:51 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Benzene U 10.00 U 3.13 11/9/16 18:51 Trichloroethene U 10.00 U 1.86 11/9/16 18:51 1,4-Dioxane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 18:51 1,2-Tetrachloroethane U 10.00 U 1.30 11/9/16 18:51 1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 2.17 11/9/16 18:51 1,1,2-Tetrachloroethane U 10.00 U 2.17 11/9/16 18:51 1,2,2-Tetrachloroethane U 10.00 U 2.17 11/9/16 18:51 1,2,2-Tetrachloroethane U 10.00 U 2.17 11/9/16 18:51 1,2,2-Tetrachloroethane U 10.00 U 2.03 11/9/16 18:51 1,2,2-Tetrachloroethane U 10.00 U 2.03 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.35 11/9/1	1,2-Dichloroethane	U	10.00	U	2.47	
Carbon Tetrachloride U 10.00 U 1.59 11/9/16 18:51 Benzene U 10.00 U 3.13 11/9/16 18:51 Trichloroethene U 10.00 U 1.86 11/9/16 18:51 1,4-Dioxane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 Toluene 70.62 10.00 U 1.83 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.47 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 Ethylbenzene 12.02 10.00 7.73 2.30 11/9/16 18:51 1,		18.38	10.00	3.37	1.83	11/9/16 18:51
Trichloroethene U 10.00 U 1.86 11/9/16 18:51 1,4-Dioxane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 Toluene 70.62 10.00 U 1.83 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 18:51 Tetrachloroethene U 10.00 U 1.47 11/9/16 18:51 Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 7.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 1,2,2-Tetrachloroethane U 10.00 U 1.66 11/9/16 18:51	Carbon Tetrachloride					
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1,4-Dioxane U 10.00 U 2.77 11/9/16 18:51 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 18:51 Toluene 70.62 10.00 18.74 2.65 11/9/16 18:51 1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 18:51 Tetrachloroethene U 10.00 U 1.47 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 Ethylbenzene U 10.00 T.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 1,2,2-Tetrachloroptopane U 10.00 U 2.30 11/9/16 18:51 1,2,3-Trichloroptopane U 10.00 U 2.03 11/9/16 18:51	Trichloroethene	U		U		
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1,2-Dibromoethane (EDB) U 10.00 U 1.30 11/9/16 18:51 Tetrachloroethene U 10.00 U 1.47 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 p & m-Xylene 33.56 10.00 7.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 0-Xylene U 10.00 U 2.30 11/9/16 18:51 12,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 18:51 1sopropylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/	Toluene	70.62		18.74	2.65	11/9/16 18:51
Tetrachloroethene U 10.00 U 1.47 11/9/16 18:51 1,1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 p & m-Xylene 33.56 10.00 7.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 o-Xylene U 10.00 U 2.30 11/9/16 18:51 12,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 18:51 15opropylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 2.03 11/9/16 18:51 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51						
1,1,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 p & m-Xylene 33.56 10.00 7.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 o-Xylene U 10.00 U 2.30 11/9/16 18:51 o-Xylene U 10.00 U 2.30 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 2.30 11/9/16 18:51 1sopropylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene 974.36 E 10.00 162.05 E 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16						11/9/16 18:51
Chlorobenzene U 10.00 U 2.17 11/9/16 18:51 Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 p & m-Xylene 33.56 10.00 7.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 o-Xylene U 10.00 U 2.30 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 18:51 1sopropylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene 974.36 E 10.00 162.05 E 1.66 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2,4-Trichlorobenzene U 10.00 U 1.66 11/9/16 18:51		U	10.00	U	1.46	
Ethylbenzene 12.02 10.00 2.77 2.30 11/9/16 18:51 p & m-Xylene 33.56 10.00 7.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 o-Xylene U 10.00 U 2.30 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 18:51 Isopropylbenzene U 10.00 U 2.03 11/9/16 18:51 Isopropylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51		U	10.00	U	2.17	11/9/16 18:51
p & m-Xylene 33.56 10.00 7.73 2.30 11/9/16 18:51 1,1,2,2-Tetrachloroethane U 10.00 U 1.46 11/9/16 18:51 o-Xylene U 10.00 U 2.30 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 18:51 Isopropylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene 974.36 E 10.00 U 2.03 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 Naphthalene 12.95 10.00 U 1.35 11/9/16 18:51 <td>Ethylbenzene</td> <td>12.02</td> <td></td> <td>2.77</td> <td></td> <td></td>	Ethylbenzene	12.02		2.77		
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o-Xylene U 10.00 U 2.30 11/9/16 18:51 1,2,3-Trichloropropane U 10.00 U 1.66 11/9/16 18:51 Isopropylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3,5-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene U 10.00 U 2.03 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 Naphthalene 12.95 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51		U	10.00	U	1.46	11/9/16 18:51
Sopropylbenzene		U	10.00	U	2.30	11/9/16 18:51
Suppropylbenzene	1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 18:51
1,2,4-Trimethylbenzene U 10.00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene 974.36 E 10.00 162.05 E 1.66 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 Naphthalene 12.95 10.00 2.47 1.91 11/9/16 18:51 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51		U	10.00	U	2.03	11/9/16 18:51
1,2,4-Trimethylbenzene U 10,00 U 2.03 11/9/16 18:51 1,3-Dichlorobenzene 974.36 E 10.00 162.05 E 1.66 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 Naphthalene 12.95 10.00 2.47 1.91 11/9/16 18:51 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51	1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:51
1,3-Dichlorobenzene 974,36 E 10.00 162.05 E 1.66 11/9/16 18:51 1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 Naphthalene 12.95 10.00 2.47 1.91 11/9/16 18:51 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51	· · ·	U	10.00	U	2.03	11/9/16 18:51
1,4-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2-Dichlorobenzene U 10.00 U 1.66 11/9/16 18:51 1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 Naphthalene 12.95 10.00 2.47 1.91 11/9/16 18:51 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51		974.36 E	10.00	162.05 E	1.66	11/9/16 18:51
1,2,4-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 Naphthalene 12.95 10.00 2.47 1.91 11/9/16 18:51 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51		U		U	1.66	
Naphthalene 12.95 10.00 2.47 1.91 11/9/16 18:51 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51	1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:51
Naphthalene 12.95 10.00 2.47 1.91 11/9/16 18:51 1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51	1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:51
1,2,3-Trichlorobenzene U 10.00 U 1.35 11/9/16 18:51 2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51		12.95		2.47		
2-Methylnaphthalene U 10.00 U 1.72 11/9/16 18:51 SURROGATES Percent Recovery Limits Lab File ID Completed 1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51	1,2,3-Trichlorobenzene					
1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51	2-Methylnaphthalene	U	10.00	U	1.72	
1,2-DCA-d4 97 70-130 A16110920 11/9/16 18:51 Toluene-d8 104 70-130 A16110920 11/9/16 18:51						
Toluene-d8 104 70-130 A16110920 11/9/16 18:51	SURROGATES					
Bromofluorobenzene 107 70-130 A16110920 11/9/16 18:51						
	Bromofluorobenzene	107	70-130	A16110920		11/9/16 18:51

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1,2-DCA-d4	97	70-130	A16110920	11/9/16 18:51
Toluene-d8	104	70-130	A16110920	11/9/16 18:51
Bromofluorobenzene	107	70-130	A16110920	11/9/16 18:51

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110922 Beacon Sample ID: 1101399 Client ID/Sampling Location: SV-08-02 Date Time Collected: 11/2/16 2:50 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/9/2016

Analysis Time: 7:38:00 PM Beacon Job Number: 3588B

COMPOUNDS	Zeacon voo 1 tunioer.	Results	LOQ	Results	LOO	
Vinyl Chloride	COMPOLINDS					Completed
1,1-Dichloroethene U 10,00 U 2,52 11/9/16 19/38 1,1,2-Trichlorotrifluoroethane (Fr.113) U 10,00 U 1,30 11/9/16 19/38 Methyl-t-butyl ether U 10,00 U 2,77 11/9/16 19/38 Methyl-t-butyl ether U 10,00 U 2,77 11/9/16 19/38 1,1-Dichloroethane U 10,00 U 2,47 11/9/16 19/38 Chloroform U 10,00 U 2,52 11/9/16 19/38 1,2-Dichloroethane U 10,00 U 2,52 11/9/16 19/38 1,1-Trichloroethane U 10,00 U 2,47 11/9/16 19/38 1,1-Trichloroethane U 10,00 U 1,59 11/9/16 19/38 Carbon Tetrachloride U 10,00 U 1,59 11/9/16 19/38 Benzene U 10,00 U 1,59 11/9/16 19/38 Trichloroethane U 10,00 U 1,83 11/9/16 19/38 1,1,2-Trichloroethane U 10,00 U 1,83 11/9/16 19/3						
1,1,2-Trichlorotrifluoroethane (Fr.113)	-					
trans-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 19:38 Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 19:38 cis-1,2-Dichloroethane U 10.00 U 2.52 11/9/16 19:38 Chloroform U 10.00 U 2.52 11/9/16 19:38 1,1-1-Tichloroethane U 10.00 U 2.65 11/9/16 19:38 1,1,1-Trichloroethane U 10.00 U 2.47 11/9/16 19:38 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 19:38 Benzene U 10.00 U 3.13 11/9/16 19:38 Trichloroethene U 10.00 U 3.73 11/9/16 19:38 1,4-Dioxane U 10.00 U 2.77 11/9/16 19:38 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 19:38 1,1,2-Pibraochtane (EDB) U 10.00 U 1.43 11/9/16 19:38						
Methyl-t-butyl ether U 10.00 U 2.77 11/9/16 19:38 1,1-Dichloroethane U 10.00 U 2.47 11/9/16 19:38 cis-1,2-Dichloroethane U 10.00 U 2.52 11/9/16 19:38 Chloroform U 10.00 U 2.05 11/9/16 19:38 1,2-Dichloroethane U 10.00 U 2.47 11/9/16 19:38 1,1,1-Trichloroethane U 10.00 U 1.59 11/9/16 19:38 Carbon Tetrachloride U 10.00 U 1.59 11/9/16 19:38 Benzene U 10.00 U 1.59 11/9/16 19:38 Brizola U 10.00 U 1.86 11/9/16 19:38 Trichloroethane U 10.00 U 2.77 11/9/16 19:38 1,1,2-Trichloroethane U 10.00 U 1.83 11/9/16 19:38 Toluene 21.02 10.00 U 1.30 11/9/16 19:38 Toluene						
1,1-Dichloroethane						
cis-1,2-Dichloroethene U 10.00 U 2.52 11/9/16 19:38 Chloroform U 10.00 U 2.55 11/9/16 19:38 1,1,1-Trichloroethane U 10.00 U 2.47 11/9/16 19:38 Carbon Tetrachloride U 10.00 U 1.83 11/9/16 19:38 Benzene U 10.00 U 1.59 11/9/16 19:38 Benzene U 10.00 U 1.86 11/9/16 19:38 1,4-Dioxane U 10.00 U 2.86 11/9/16 19:38 1,1,2-Trichloroethane U 10.00 U 2.77 11/9/16 19:38 1,1,2-Tirchloroethane (EDB) U 10.00 U 1.83 11/9/16 19:38 Tetrachloroethane (EDB) U 10.00 U 1.33 11/9/16 19:38 Tetrachloroethane (EDB) U 10.00 U 1.47 11/9/16 19:38 Tetrachloroethane U 10.00 U 2.47 11/9/16 19:38 Et						
Chloroform	*					
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1,2-DCA-d4 93 70-130 A16110922 11/9/16 19:38 Toluene-d8 105 70-130 A16110922 11/9/16 19:38	2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 19:38
Toluene-d8 105 70-130 A16110922 11/9/16 19:38						
Bromofluorobenzene 109 70-130 A16110922 11/9/16 19:38	Toluene-d8	105	70-130	A16110922		11/9/16 19:38
	Bromofluorobenzene	109	70-130	A16110922		11/9/16 19:38

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Client: Vista GeoScience 130 Capital Drive, Suite C Golden, CO

> Lab File ID: A16110924 Beacon Sample ID: H0234844 Client ID/Sampling Location: SV-08-09 Date Time Collected: 11/2/16 4:36 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/9/2016

Analysis Time: 8:24:00 PM Beacon Job Number: 3588B

	Results	LOQ	Results	LOO	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 20:24
1,1-Dichloroethene	Ü	10.00	Ü	2.52	11/9/16 20:24
1,1,2-Trichlorotrifluoroethane (Fr.113)	Ü	10.00	U	1.30	11/9/16 20:24
trans-1,2-Dichloroethene	Ü	10.00	Ü	2.52	11/9/16 20:24
Methyl-t-butyl ether	Ü	10.00	U	2.77	11/9/16 20:24
1,1-Dichloroethane	Ü	10.00	Ü	2.47	11/9/16 20:24
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 20:24
Chloroform	Ü	10.00	Ü	2.05	11/9/16 20:24
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 20:24
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 20:24
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 20:24
Benzene	U	10.00	U	3.13	11/9/16 20:24
Trichloroethene	U	10.00	U	1.86	11/9/16 20:24
1,4-Dioxane	U	10.00	U	2.77	11/9/16 20:24
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 20:24
Toluene	45.32	10.00	12.03	2.65	11/9/16 20:24
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 20:24
Tetrachloroethene	U	10.00	U	1.47	11/9/16 20:24
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 20:24
Chlorobenzene	U	10.00	U	2.17	11/9/16 20:24
Ethylbenzene	U	10.00	U	2.30	11/9/16 20:24
p & m-Xylene	23.46	10.00	5.4	2.30	11/9/16 20:24
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 20:24
o-Xylene	U	10.00	U	2.30	11/9/16 20:24
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 20:24
Isopropylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,3-Dichlorobenzene	834.78 E	10.00	138.84 E	1.66	11/9/16 20:24
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 20:24
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 20:24
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 20:24
Naphthalene	7.38 J	10.00	1.41 J	1.91	11/9/16 20:24
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 20:24
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 20:24
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110924		11/9/16 20:24
Toluene-d8	104	70-130	A16110924		11/9/16 20:24
Bromofluorobenzene	109	70-130	A16110924		11/9/16 20:24

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110926 Beacon Sample ID: G0177969 Client ID/Sampling Location: SV-08-10 Date Time Collected: 11/2/16 4:56 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/9/2016

Analysis Time: 9:10:00 PM
Beacon Job Number: 3588B

Deacon Job Nulliber.	3300D				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 21:10
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 21:10
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 21:10
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 21:10
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
Chloroform	U	10.00	U	2.05	11/9/16 21:10
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 21:10
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 21:10
Carbon Tetrachloride	11.31	10.00	1.8	1.59	11/9/16 21:10
Benzene	U	10.00	U	3.13	11/9/16 21:10
Trichloroethene	U	10.00	U	1.86	11/9/16 21:10
1,4-Dioxane	U	10.00	U	2.77	11/9/16 21:10
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 21:10
Γoluene	47.67	10.00	12.65	2.65	11/9/16 21:10
,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 21:10
Tetrachloroethene	U	10.00	U	1.47	11/9/16 21:10
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 21:10
Chlorobenzene	U	10.00	U	2.17	11/9/16 21:10
Ethylbenzene	10.95	10.00	2.52	2.30	11/9/16 21:10
2 & m-Xylene	27.47	10.00	6.33	2.30	11/9/16 21:10
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 21:10
o-Xylene	U	10.00	U	2.30	11/9/16 21:10
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 21:10
Isopropylbenzene	U	10.00	U	2.03	11/9/16 21:10
1,3,5-Trimethylbenzene	17.41	10.00	3.54	2.03	11/9/16 21:10
1,2,4-Trimethylbenzene	46.07	10.00	9.37	2.03	11/9/16 21:10
1,3-Dichlorobenzene	626.19 E	10.00	104.14 E	1.66	11/9/16 21:10
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 21:10
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 21:10
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 21:10
Naphthalene	55.0	10.00	10.49	1.91	11/9/16 21:10
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 21:10
2-Methylnaphthalene	13.25	10.00	2.28	1.72	11/9/16 21:10
		Timita	Lab File ID		Completed
SURROGATES	Percent Recovery	Limits			
	Percent Recovery 93	70-130			
SURROGATES 1,2-DCA-d4 Toluene-d8	93 104	70-130 70-130	A16110926 A16110926		11/9/16 21:10 11/9/16 21:10

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110928
Beacon Sample ID: H0234580
Client ID/Sampling Location: SV-03-03
Date Time Collected: 11/3/16 9:10 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016

Analysis Date: 11/9/2016 Analysis Time: 10:00:00 PM Beacon Job Number: 3588B

Beacon Jou Number.	3300D				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 22:00
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 22:00
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 22:00
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 22:00
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
Chloroform	U	10.00	U	2.05	11/9/16 22:00
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 22:00
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 22:00
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 22:00
Benzene	U	10.00	U	3.13	11/9/16 22:00
Trichloroethene	U	10.00	U	1.86	11/9/16 22:00
1,4-Dioxane	U	10.00	U	2.77	11/9/16 22:00
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 22:00
Toluene	U	10.00	U	2.65	11/9/16 22:00
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 22:00
Tetrachloroethene	U	10.00	U	1.47	11/9/16 22:00
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:00
Chlorobenzene	U	10.00	U	2.17	11/9/16 22:00
Ethylbenzene	U	10.00	U	2.30	11/9/16 22:00
p & m-Xylene	U	10.00	U	2.30	11/9/16 22:00
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:00
o-Xylene	U	10.00	U	2.30	11/9/16 22:00
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 22:00
Isopropylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,3-Dichlorobenzene	56.82	10.00	9.45	1.66	11/9/16 22:00
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:00
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:00
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:00
Naphthalene	U	10.00	U	1.91	11/9/16 22:00
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:00
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 22:00
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
	r ercent Recovery				
1,2-DCA-d4	92	70-130	A16110928		11/9/16 22:00
1,2-DCA-d4 Toluene-d8		70-130 70-130	A16110928 A16110928		11/9/16 22:00 11/9/16 22:00

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110930
Beacon Sample ID: G0178581
Client ID/Sampling Location: SV-03-02
Date Time Collected: 11/3/16 9:26 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016

Analysis Date: 11/9/2016 Analysis Time: 10:46:00 PM Beacon Job Number: 3588B

Beacon Job Number.	3300D				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 22:46
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 22:46
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 22:46
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 22:46
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
Chloroform	U	10.00	U	2.05	11/9/16 22:46
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 22:46
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 22:46
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 22:46
Benzene	U	10.00	U	3.13	11/9/16 22:46
Trichloroethene	U	10.00	U	1.86	11/9/16 22:46
1,4-Dioxane	U	10.00	U	2.77	11/9/16 22:46
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 22:46
Toluene	U	10.00	U	2.65	11/9/16 22:46
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 22:46
Tetrachloroethene	76.08	10.00	11.22	1.47	11/9/16 22:46
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:46
Chlorobenzene	U	10.00	U	2.17	11/9/16 22:46
Ethylbenzene	U	10.00	U	2.30	11/9/16 22:46
p & m-Xylene	U	10.00	U	2.30	11/9/16 22:46
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:46
o-Xylene	U	10.00	U	2.30	11/9/16 22:46
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 22:46
Isopropylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,3-Dichlorobenzene	30.19	10.00	5.02	1.66	11/9/16 22:46
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:46
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:46
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:46
Naphthalene	U	10.00	U	1.91	11/9/16 22:46
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:46
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 22:46
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110930		11/9/16 22:46
Toluene-d8	104	70-130	A16110930		11/9/16 22:46
Bromofluorobenzene	107	70-130	A16110930		11/9/16 22:46

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110932
Beacon Sample ID: H0234875
Client ID/Sampling Location: SV-03-01
Date Time Collected: 11/3/16 9:41 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016

Analysis Date: 11/9/2016 Analysis Time: 11:32:00 PM Beacon Job Number: 3588B

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 23:32
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 23:32
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 23:32
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 23:32
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
Chloroform	U	10.00	U	2.05	11/9/16 23:32
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 23:32
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 23:32
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 23:32
Benzene	U	10.00	U	3.13	11/9/16 23:32
Trichloroethene	U	10.00	U	1.86	11/9/16 23:32
1,4-Dioxane	U	10.00	U	2.77	11/9/16 23:32
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 23:32
Toluene	U	10.00	U	2.65	11/9/16 23:32
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 23:32
Tetrachloroethene	U	10.00	U	1.47	11/9/16 23:32
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 23:32
Chlorobenzene	U	10.00	U	2.17	11/9/16 23:32
Ethylbenzene	U	10.00	U	2.30	11/9/16 23:32
p & m-Xylene	U	10.00	U	2.30	11/9/16 23:32
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 23:32
o-Xylene	U	10.00	U	2.30	11/9/16 23:32
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 23:32
Isopropylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,3-Dichlorobenzene	67.65	10.00	11.25	1.66	11/9/16 23:32
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 23:32
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 23:32
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 23:32
Naphthalene	U	10.00	U	1.91	11/9/16 23:32
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 23:32
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 23:32
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110932		11/9/16 23:32
Toluene-d8	103	70-130	A16110932		11/9/16 23:32
Bromofluorobenzene	107	70-130	A16110932		11/9/16 23:32

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110934
Beacon Sample ID: G0164568
Client ID/Sampling Location: SV-08-07
Date Time Collected: 11/3/16 10:41 AM
Matrix: Soil Gas
Dilution Factor: 1.0

| Dilution Factor: 1.0 | Sample Volume in Liters: 1.00 | Date Received: 11/8/2016 | Analysis Date: 11/10/2016 | Analysis Time: 12:20:00 AM

Beacon Job Number: 3588B

Deacon Jou Number.	3366B				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 0:20
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 0:20
rans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 0:20
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 0:20
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
Chloroform	U	10.00	U	2.05	11/10/16 0:20
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 0:20
1,1,1-Trichloroethane	10.17	10.00	1.86	1.83	11/10/16 0:20
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 0:20
Benzene	U	10.00	U	3.13	11/10/16 0:20
Trichloroethene	U	10.00	U	1.86	11/10/16 0:20
1,4-Dioxane	U	10.00	U	2.77	11/10/16 0:20
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 0:20
Toluene	106.17	10.00	28.18	2.65	11/10/16 0:20
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 0:20
Tetrachloroethene	U	10.00	U	1.47	11/10/16 0:20
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 0:20
Chlorobenzene	U	10.00	U	2.17	11/10/16 0:20
Ethylbenzene	18.63	10.00	4.29	2.30	11/10/16 0:20
p & m-Xylene	46.51	10.00	10.71	2.30	11/10/16 0:20
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 0:20
o-Xylene	12.78	10.00	2.94	2.30	11/10/16 0:20
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 0:20
Isopropylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,3-Dichlorobenzene	470.72 E	10.00	78.29 E	1.66	11/10/16 0:20
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 0:20
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 0:20
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 0:20
Naphthalene	89.4	10.00	17.06	1.91	11/10/16 0:20
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 0:20
2-Methylnaphthalene	21.28	10.00	3.66	1.72	11/10/16 0:20
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110934		11/10/16 0:20
Toluene-d8	101	70-130	A16110934		11/10/16 0:20
Bromofluorobenzene	106	70-130	A16110934		11/10/16 0:20

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110936
Beacon Sample ID: H0234589
Client ID/Sampling Location: SV-08-08
Date Time Collected: 11/3/16 11:05 AM
Matrix: Soil Gas
Dilution Factor: 1.0

Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 1:07:00 AM

3588B

Beacon Job Number.	3300D				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 1:07
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 1:07
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 1:07
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 1:07
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
Chloroform	U	10.00	U	2.05	11/10/16 1:07
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 1:07
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 1:07
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 1:07
Benzene	U	10.00	U	3.13	11/10/16 1:07
Trichloroethene	U	10.00	U	1.86	11/10/16 1:07
1,4-Dioxane	U	10.00	U	2.77	11/10/16 1:07
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 1:07
Γoluene	94.74	10.00	25.14	2.65	11/10/16 1:07
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 1:07
Tetrachloroethene	U	10.00	U	1.47	11/10/16 1:07
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:07
Chlorobenzene	U	10.00	U	2.17	11/10/16 1:07
Ethylbenzene	13.59	10.00	3.13	2.30	11/10/16 1:07
p & m-Xylene	35.28	10.00	8.12	2.30	11/10/16 1:07
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:07
o-Xylene	U	10.00	U	2.30	11/10/16 1:07
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 1:07
Isopropylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,3-Dichlorobenzene	794.56 E	10.00	132.15 E	1.66	11/10/16 1:07
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:07
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:07
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:07
Naphthalene	4.22 J	10.00	0.81 J	1.91	11/10/16 1:07
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:07
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 1:07
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110936		11/10/16 1:07
Toluene-d8	100	70 120	A 1 (1 1 0 0 2 (11/10/16 1:07
1 Oluelle-uo	103	70-130	A16110936		11/10/10 1:07

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110938
Beacon Sample ID: G0164999
Client ID/Sampling Location: SV-08-01
Date Time Collected: 11/3/16 11:31 AM
Matrix: Soil Gas
Dilution Factor: 1.0

Beacon Job Number: 3588B

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 1:53
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 1:53
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 1:53
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 1:53
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
Chloroform	U	10.00	U	2.05	11/10/16 1:53
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 1:53
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 1:53
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 1:53
Benzene	U	10.00	U	3.13	11/10/16 1:53
Trichloroethene	U	10.00	U	1.86	11/10/16 1:53
1,4-Dioxane	U	10.00	U	2.77	11/10/16 1:53
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 1:53
Toluene	29.05	10.00	7.71	2.65	11/10/16 1:53
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 1:53
Tetrachloroethene	U	10.00	U	1.47	11/10/16 1:53
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:53
Chlorobenzene	U	10.00	U	2.17	11/10/16 1:53
Ethylbenzene	U	10.00	U	2.30	11/10/16 1:53
p & m-Xylene	U	10.00	U	2.30	11/10/16 1:53
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:53
o-Xylene	U	10.00	U	2.30	11/10/16 1:53
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 1:53
Isopropylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,3-Dichlorobenzene	130.6	10.00	21.72	1.66	11/10/16 1:53
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:53
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:53
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:53
Naphthalene	U	10.00	U	1.91	11/10/16 1:53
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:53
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 1:53
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110938		11/10/16 1:53
Toluene-d8	102	70-130	A16110938		11/10/16 1:53
Bromofluorobenzene	103	70-130	A16110938		11/10/16 1:53

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Client: Vista GeoScience 130 Capital Drive, Suite C Golden, CO

> Lab File ID: A16110940 1100817 Beacon Sample ID: Client ID/Sampling Location: SV-05-01 Date Time Collected: 11/3/16 1:22 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016

Analysis Date: 11/10/2016 Analysis Time: 2:40:00 AM Beacon Job Number: 3588B

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 2:40
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 2:40
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 2:40
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 2:40
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
Chloroform	U	10.00	U	2.05	11/10/16 2:40
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 2:40
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 2:40
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 2:40
Benzene	U	10.00	U	3.13	11/10/16 2:40
Trichloroethene	U	10.00	U	1.86	11/10/16 2:40
1,4-Dioxane	U	10.00	U	2.77	11/10/16 2:40
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 2:40
Toluene	36.46	10.00	9.68	2.65	11/10/16 2:40
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 2:40
Tetrachloroethene	U	10.00	U	1.47	11/10/16 2:40
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 2:40
Chlorobenzene	U	10.00	U	2.17	11/10/16 2:40
Ethylbenzene	U	10.00	U	2.30	11/10/16 2:40
p & m-Xylene	25.08	10.00	5.78	2.30	11/10/16 2:40
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 2:40
o-Xylene	U	10.00	U	2.30	11/10/16 2:40
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 2:40
Isopropylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,3-Dichlorobenzene	312.02 E	10.00	51.89 E	1.66	11/10/16 2:40
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 2:40
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 2:40
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 2:40
Naphthalene	6.07 J	10.00	1.16 J	1.91	11/10/16 2:40
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 2:40
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 2:40
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4					
1,2-DCA-u4	94	70-130	A16110940		11/10/16 2:40
Toluene-d8	94 102	70-130 70-130	A16110940 A16110940		11/10/16 2:40 11/10/16 2:40

SURROGATES	Percent Recovery	Limits	Lab File ID	Completed
1,2-DCA-d4	94	70-130	A16110940	11/10/16 2:40
Toluene-d8	102	70-130	A16110940	11/10/16 2:40
Bromofluorobenzene	108	70-130	A16110940	11/10/16 2:40

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110942 1049459 Beacon Sample ID: Client ID/Sampling Location: SV-05-02 Date Time Collected: 11/3/16 1:42 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 11/10/2016 Analysis Date:

Analysis Time: 3:26:00 AM Beacon Job Number: 3588B

Beacon Job Nulliber.	3300D				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 3:26
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 3:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 3:26
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 3:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
Chloroform	U	10.00	U	2.05	11/10/16 3:26
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 3:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 3:26
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 3:26
Benzene	U	10.00	U	3.13	11/10/16 3:26
Trichloroethene	U	10.00	U	1.86	11/10/16 3:26
1,4-Dioxane	U	10.00	U	2.77	11/10/16 3:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 3:26
Toluene	54.1	10.00	14.36	2.65	11/10/16 3:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 3:26
Tetrachloroethene	U	10.00	U	1.47	11/10/16 3:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 3:26
Chlorobenzene	U	10.00	U	2.17	11/10/16 3:26
Ethylbenzene	13.54	10.00	3.12	2.30	11/10/16 3:26
p & m-Xylene	34.33	10.00	7.91	2.30	11/10/16 3:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 3:26
o-Xylene	11.79	10.00	2.72	2.30	11/10/16 3:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 3:26
Isopropylbenzene	U	10.00	U	2.03	11/10/16 3:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 3:26
1,2,4-Trimethylbenzene	10.82	10.00	2.2	2.03	11/10/16 3:26
1,3-Dichlorobenzene	338.87 E	10.00	56.36 E	1.66	11/10/16 3:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 3:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 3:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 3:26
Naphthalene	3.63 J	10.00	0.69 J	1.91	11/10/16 3:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 3:26
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 3:26
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110942		11/10/16 3:26
Toluene-d8	102	70-130	A16110942		11/10/16 3:26
Bromofluorobenzene	109	70-130	A16110942		11/10/16 3:26

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110944 1049520 Beacon Sample ID: Client ID/Sampling Location: SV-05-03 Date Time Collected: 11/3/16 2:10 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/10/2016

Analysis Time: 4:12:00 AM Beacon Job Number: 3588B

	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 4:12
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 4:12
trans-1,2-Dichloroethene	Ü	10.00	Ü	2.52	11/10/16 4:12
Methyl-t-butyl ether	Ü	10.00	U	2.77	11/10/16 4:12
1,1-Dichloroethane	Ü	10.00	U	2.47	11/10/16 4:12
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
Chloroform	Ü	10.00	U	2.05	11/10/16 4:12
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 4:12
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 4:12
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 4:12
Benzene	U	10.00	U	3.13	11/10/16 4:12
Trichloroethene	U	10.00	U	1.86	11/10/16 4:12
1,4-Dioxane	U	10.00	U	2.77	11/10/16 4:12
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 4:12
Toluene	38.06	10.00	10.1	2.65	11/10/16 4:12
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 4:12
Tetrachloroethene	U	10.00	U	1.47	11/10/16 4:12
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:12
Chlorobenzene	U	10.00	U	2.17	11/10/16 4:12
Ethylbenzene	10.15	10.00	2.34	2.30	11/10/16 4:12
p & m-Xylene	25.24	10.00	5.81	2.30	11/10/16 4:12
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:12
o-Xylene	U	10.00	U	2.30	11/10/16 4:12
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 4:12
Isopropylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,3-Dichlorobenzene	481.16 E	10.00	80.02 E	1.66	11/10/16 4:12
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:12
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:12
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:12
Naphthalene	18.82	10.00	3.59	1.91	11/10/16 4:12
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:12
2-Methylnaphthalene	14.12	10.00	2.43	1.72	11/10/16 4:12
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110944		11/10/16 4:12
Toluene-d8	101	70-130	A16110944		11/10/16 4:12
Bromofluorobenzene	108	70-130	A16110944		11/10/16 4:12

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110946
Beacon Sample ID: G0177980
Client ID/Sampling Location: SV-05-05
Date Time Collected: 11/3/16 2:42 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016

Analysis Date: 11/10/2016 Analysis Time: 4:59:00 AM Beacon Job Number: 3588B

	Results	LOQ	Results	LOO	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 4:59
1,1-Dichloroethene	Ü	10.00	U	2.52	11/10/16 4:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	Ü	10.00	U	1.30	11/10/16 4:59
trans-1,2-Dichloroethene	Ü	10.00	Ü	2.52	11/10/16 4:59
Methyl-t-butyl ether	Ü	10.00	U	2.77	11/10/16 4:59
1,1-Dichloroethane	Ü	10.00	U	2.47	11/10/16 4:59
cis-1,2-Dichloroethene	Ü	10.00	U	2.52	11/10/16 4:59
Chloroform	U	10.00	U	2.05	11/10/16 4:59
1,2-Dichloroethane	Ü	10.00	U	2.47	11/10/16 4:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 4:59
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 4:59
Benzene	U	10.00	U	3.13	11/10/16 4:59
Trichloroethene	Ü	10.00	U	1.86	11/10/16 4:59
1,4-Dioxane	U	10.00	U	2.77	11/10/16 4:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 4:59
Toluene	31.06	10.00	8.24	2.65	11/10/16 4:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 4:59
Tetrachloroethene	U	10.00	U	1.47	11/10/16 4:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:59
Chlorobenzene	U	10.00	U	2.17	11/10/16 4:59
Ethylbenzene	U	10.00	U	2.30	11/10/16 4:59
p & m-Xylene	19.08	10.00	4.39	2.30	11/10/16 4:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:59
o-Xylene	U	10.00	U	2.30	11/10/16 4:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 4:59
Isopropylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,3-Dichlorobenzene	439.9 E	10.00	73.16 E	1.66	11/10/16 4:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:59
Naphthalene	3.08 J	10.00	0.59 J	1.91	11/10/16 4:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:59
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 4:59
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	91	70-130	A16110946		11/10/16 4:59
Toluene-d8	102	70-130	A16110946		11/10/16 4:59
Bromofluorobenzene	108	70-130	A16110946		11/10/16 4:59

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Table 1

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110948 Beacon Sample ID: H0231898 Client ID/Sampling Location: SV-05-04 Date Time Collected: 11/3/16 2:28 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/10/2016

Analysis Time: 5:45:00 AM Beacon Job Number: 3588B

Deacon Jou Number.	3300D				
	Results	LOQ	Results	LOQ	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 5:45
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 5:45
rans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 5:45
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 5:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
Chloroform	U	10.00	U	2.05	11/10/16 5:45
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 5:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 5:45
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 5:45
Benzene	U	10.00	U	3.13	11/10/16 5:45
Trichloroethene	U	10.00	U	1.86	11/10/16 5:45
1,4-Dioxane	U	10.00	U	2.77	11/10/16 5:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 5:45
Γoluene	41.01	10.00	10.88	2.65	11/10/16 5:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 5:45
Tetrachloroethene	U	10.00	U	1.47	11/10/16 5:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 5:45
Chlorobenzene	U	10.00	U	2.17	11/10/16 5:45
Ethylbenzene	10.35	10.00	2.38	2.30	11/10/16 5:45
o & m-Xylene	25.17	10.00	5.8	2.30	11/10/16 5:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 5:45
o-Xylene	U	10.00	U	2.30	11/10/16 5:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 5:45
Isopropylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,3-Dichlorobenzene	396.72 E	10.00	65.98 E	1.66	11/10/16 5:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 5:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 5:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 5:45
Naphthalene	80.59	10.00	15.37	1.91	11/10/16 5:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 5:45
2-Methylnaphthalene	27.52	10.00	4.73	1.72	11/10/16 5:45
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
,2-DCA-d4	92	70-130	A16110948		11/10/16 5:45
Γoluene-d8	102	70-130	A16110948		11/10/16 5:45
Bromofluorobenzene	107	70-130	A16110948		11/10/16 5:45

U = Not detected or below Reporting Limit (RL).; J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Beacon Environmental Services, Inc. 2203A Commerce Road Suite 1 Forest Hill, MD 21050 USA Analysis by EPA Method TO-17

<u>Client:</u>
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110950 Beacon Sample ID: 1101163 Client ID/Sampling Location: SV-05-06 Date Time Collected: 11/3/16 3:06 PM Matrix: Soil Gas Dilution Factor: 1.0 Sample Volume in Liters: 1.00 Date Received: 11/8/2016 Analysis Date: 11/10/2016

Analysis Time: 6:32:00 AM Beacon Job Number: 3588B

	Results	LOQ	Results	LOO	
COMPOUNDS	ug/m3	ug/m3	ppbv	ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 6:32
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 6:32
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 6:32
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 6:32
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
Chloroform	U	10.00	U	2.05	11/10/16 6:32
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 6:32
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 6:32
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 6:32
Benzene	U	10.00	U	3.13	11/10/16 6:32
Trichloroethene	U	10.00	U	1.86	11/10/16 6:32
1,4-Dioxane	U	10.00	U	2.77	11/10/16 6:32
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 6:32
Toluene	34.42	10.00	9.13	2.65	11/10/16 6:32
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 6:32
Tetrachloroethene	U	10.00	U	1.47	11/10/16 6:32
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 6:32
Chlorobenzene	U	10.00	U	2.17	11/10/16 6:32
Ethylbenzene	11.04	10.00	2.54	2.30	11/10/16 6:32
p & m-Xylene	27.78	10.00	6.4	2.30	11/10/16 6:32
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 6:32
o-Xylene	U	10.00	U	2.30	11/10/16 6:32
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 6:32
Isopropylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,3-Dichlorobenzene	397.51 E	10.00	66.11 E	1.66	11/10/16 6:32
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 6:32
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 6:32
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 6:32
Naphthalene	3.63 J	10.00	0.69 J	1.91	11/10/16 6:32
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 6:32
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 6:32
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110950		11/10/16 6:32
Toluene-d8	102	70-130	A16110950		11/10/16 6:32
Bromofluorobenzene	108	70-130	A16110950		11/10/16 6:32

 $U = Not \ detected \ or \ below \ Reporting \ Limit \ (RL).; \ J = Estimated \ value \ below \ the \ RL.; \ E = Measurement \ exceeded \ upper \ calibration \ range \ of \ instrument.$

Attachment 1

Chain of Custody

2203A Commerce Road, Suite 1

Forest Hill, MD 21050 410-838-8780 / fax: 410-838-8740

CHAIN-OF-CUSTODY RECORD

Beacon Environmental Services, Inc.

Client Contact Information	formation		Project Mai	Project Manager.Lynda		Price			BEACON Project No.: 3588	roject No	.: 3588			
Company: Lotte Co.	200		Phone: (512)	2) 492-	•	6			Client PO No.	No.		٨	Analysis	Matrix
Address: (occ	Address: (0000 Jotown Blud	1. NE	Project Name:	ne: COA	Reilyard	10.01			Analysis Turnaround Time	urnaroun	d Time			
City/State/Zip: Al bogoer gue	bogueraux, NM	011 18	Location: NOO	100 2 nd	St. 5	JW Alb	Albusuerau	62.	Normal	ıal				iiA J
Phone: (SoS)	0		Sampler Name(s):		A.O	-0	LAW Ser	,	□ Rush	Rush (Specify):	days			nəidi
			Star	Start Time		Stop	Stop Time		Pre-survey !	Aeasured	Post-survey		ε	nA \ 1
Location ID	Tube ID Number	Pump ID Number	Date	Time	Temp. (F)	Date	Time	Temp. (F)	Pump Flow Rate (mL/min)		Measured Pump Flow Rate (mL/min)	r-ot	8260E	oobal Soil C
SV-W B	40232665	RO4-PLO1-44	52/01	11:25		57)a	11.53		200 ml	Inn	200 m /min	×		
SV-06 A				11:28			11:33		JM 007	Imm	900 m (_ (m3r			
SV-0786	H0231 804			13:54			13:40		7w 002	M.M.	1			
5V- 07 W	HO 194 678			13:38			13:40		100 m	Jones A	2000/L/m31			
SV-08A	1049238	1		1831			21:51		1200 MI	N.M/	- (
5V-08B	1161336			15:37			18:42		74 007					
SW-09A	G0177458			17:18			17.23		200 ml	mm/	1			
SV-09 B	1101200			17: 15			17:23		200 M	I am	20 ml/mm			
		À	>			>						→		
	Ambient Conditio	Ambient Conditions When Sampling						Pur	np(s) Calib	ation and	Pump(s) Calibration and Flow Rate Check:			
0	Temperature (F)		Barometric Pressure (mmHa)	re (mmHa)	Date	Cal. Tube ID:	D:	Date	Lab or Field	Flow Mete	Flow Meter Make/Serial #	Oper	Operator name	a
Start	65°		5.22		10/25	Pre-	Pre-Survey							
Stop						Post-	Post-Survey							
Special Notes/Instructions:	structions:													
Relinquished by: (signature)	JEG CHOEL		Date/Time:	9	13:30			Received by: (signature)	by: August	August 5 Benowles	Date/Ti	me: 4/2016		13:27h
Relinquished by: (signature)	<		Date/Time:					Received by	by:		Date/Time	4.7		
Relinquished by: (signature)			Date/Time:					Received by: (signature)	by:		Date/Time:	ne:		
Lab	Courier Name	ame		Shipment Condition	Condition		Sample D	Sample Delivery Group ID	CI dno	Custod	Custody Seal Intact	Custo	Custody Seal No.	No.
Use Only	Fed Ex		8	Col						Ses	No None	000	603986	
			0											

2203A Commerce Road, Suite 1 Forest Hill, MD 21050 410-838-8780 / fax: 410-838-8740

CHAIN-OF-CUSTODY RECORD

Beacon Environmental Services, Inc.

Client Contact Information	nformation		Project Manager:	nager:					BEACON Project No.: 3588	o.: 3588			
Company: Lntere	tera		Phone:						Client PO No.		Analysis		Matrix
Address:			Project Nam	me:					Analysis Turnaround Time	nd Time			
City/State/Zip:			Location:						Normal				IIA J
Phone:			Sampler Name(s):	ame(s):					Rush (Specify):): days		uoid	nəia
			Start	t Time		Stop	Stop Time		Pre-survev Measured	Post-survey			mA \ 1
Location ID	Tube ID Number	Pump ID Number	Date	Time	Temp. (F)	Date	Time	Temp. (F)	Pump Flow Rate (mL/min)	Measured Pump Flow Rate (mL/min)	71-OT 30928	SOIT	Soin G
SV-16A	SV-16 A HO199673	RDA-PIOI-AA	10/10	15.29		22/01	13.40		200 ml/min	20 m L / max	×		
SV-16 B	SV-16 B H0200229			15:35			13:40			200 m L/m.m	-		
SV-17 A	5V-174 HO232690			8): 11			14.23		200 ml/min 200 ml/min	20 m/ / mm			
SV-17 B	SN-17 B HO199663			1:18			14:23		200 ml /min 200 ml /min	200 mt lain			
SV-03 A	H0234823			14:56			16.61		200 m/min	20 ml/may			
SV-03 B	H0200222			15:41			15.01			20mL/min			
511-144	60 115947			5:55			15:58			20nt/ma			
SV-14 B	60115403		_	15:33			16:38			20nd/nin			
SV-OIA	Go 119804			50:9/			01.91			200mL/min			
SI-04 B	00 (63746	>	>	16:05		>	01.01			20 milmo	>		
	Ambient Condition	Ambient Conditions When Sampling						Pun	Pump(s) Calibration and Flow Rate Check:	d Flow Rate Check:			
	Temperature (F)		Barometric Pressure	ire (mmHg)	Date	Cal. Tube ID:	D:	Date	Lab or Field Flow Met	Flow Meter Make/Serial #	Operator name	name	
				1				2	+	in indirect contract in	- points	2000	- 1

Special Notes/Instructions:)		
Relinquished by: JET A30E ((signature)	Date/Times	(signature) Activity Power Max 114/2016 13:174	HT:57 9700/
Relinquished by: (signature)		Received by: Joate/Time: (signature)	
Relinquished by: (signature)	Date/Time:	Received by: Date/Time: (signature)	ò
Lab Courier Name Use $Feu Ex$	Shipment Condition	Sample Delivery Group ID Custody Seal Intact	Custody Seal No. 6603986
	5		

Pre-Survey Post-Survey

Start

Page 2 of S

2203A Commerce Road, Suite 1 Forest Hill, MD 21050 410-838-8780 / fax: 410-838-8740

CHAIN-OF-CUSTODY RECORD

Beacon Environmental Services, Inc.

Client Contact Information	ıformation		Project Manager:	nager:					BEACON Project No.: 3588	No.: 3588			
Company: Lotiera	ofera		Phone:						Client PO No.		Ana	Analysis	Matrix
Address:			Project Name	ne:					Analysis Turnaround Time	und Time			_
City/State/Zip:			Location:						Normal				iA J
Phone:			Sampler Name(s):	ame(s):					Rush (Specify):	ify): days			nəidi
			Start	Start Time		Stop	Stop Time		Pre-survey Measure	Post-survey		8	mA \ 1
Location ID	Tube ID Number	Pump ID Number	Date	Time	Temp. (F)	Date	Time	Temp. (F)	Pump Flow Rate (mL/min)	Flov	₹ŀ-OT	8260E	oopul Soil G
SV-12A	H0260253	ROA-PIDI-AA	10/26	85:91		10/26	6 h 91		20m/Jmos	20 ml/my	×		
SV-126	G011545B		_	86:31			16:43		200 ml / min	1 (_		
SV-11 A	GO /[4554			91.11			17:21		-	20mL/min			
8V-11B	75 1996 05			91.11			17:11		200 m//min	Les mt/min			
SV-10 A	GOM 407			1749			17.54		200 ml/min				
SII-10 B	10790752)	->	1749		>	17.54		200.11	200 / Just	7		
	Ambient Condition	Ambient Conditions When Sampling						Pur	np(s) Calibration	Pump(s) Calibration and Flow Rate Check:	u		
	Temperature (F)		Barometric Pressure	re (mmHg)	Date	Cal. Tube ID:	ë	Date	Lab or Field Flow N	Flow Meter Make/Serial #	Operati	Operator name	
Start	11° F		5.28 "	malta	10/26	Pre-	Pre-Survey						
Stop	7.8°F	57	11	mmtha	16/26	Post-	Post-Survey						
Special Notes/Instructions:	structions:)									
Relinquished by: (signature)	JEGE BAJOK		Date/Time:	(6)	12.30			Received by:	-	Party Paris, Mark 17/4/2016 17:17	"/4/2016	12	177
Relinquished by: (signature)	X.		Date/Time:	9				Received by:		Date/Time:	me:		
Relinquished by: (signature)			Date/Time:					Received by: (signature)	by: e)	Date/Time:	me:		
Lab Use Only	Courier Name	lame		Shipment Condition	Condition		Sample I	Sample Delivery Group ID		Custody Seal Intact	Custody Seal No. 0603986	Custody Seal No.	9
				0								4	

Beacon Environmental Services, Inc.

CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1 Forest Hill, MD 21050 410-838-8780 / fax: 410-838-8740

Stop Time Temp.	Client Contact Information	nformation		Project Mana	nager:				1	BEACON Project No.: 3588	No.: 3588			
Courter Name Cour		ntera		Phone:					i e	Client PO No.		MenA		Astriv
Continue	Address:			Project Na	ne:					Analysis Turnan	Time	Allaly		Matrix
Courte Date Number Sampler Name Sample Name	City/State/Zip:			Location:						Normal	allin ning			ηİΑ
Coulor Name Pump ID Number Pump ID	Phone:			Sampler N	ame(s):					Rush (Speci				ı juəi
Courter Name Pump ID Number Date Time Tim				100	F		i	i						
COLUMN C	Location ID	Tube ID Number	Pump ID Number	Date		Temp.	Date	p lime	Temp.	Pre-survey Measurer Pump Flow Rate			so	2000
HO 200236 13.56 14.55 10.04 4.70 10.04	SV-32A	60/64954	ROA-PIOI-AA	£2/01	12:31		10/07	15:51		month / Mary	700 al /		IT	
H D D D D D D D D D		11			13:31		-	19:36		more from	Brilling	<		
Wi 0 1964	51-314	H0200236			13.58			14:02		Tring land	100 11 les			
10 16 10 5 7 14 13 0 14 13 5 15 15 15 15 15 15 15 15 16 16 16 17 1	SV-31 B	M; 102989			13:58			10:4		700 ml /min	marker 1			-
10 16 17 14 15 14 15 15 15 15 10 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	51-30 A	60167057			14:30			14:25		Paul luis	135 1 / 12 V			-
10 2.0 2.1	31-30 B	GO 164 172			14:30			大艺		_	100 m/ /m.n			-
100 060 15.21 15.00 100 mL/mm 200 mL/mm 100	Sr-29 A	H0200 227			14:55			15:00		20 ml / min	Book lain	\		-
	9V-29B	HD200271			H:55			15:00		mal lan	12001 /2:2			
Ambient Conditions When Sampling Ambient Conditions When Sampling Ambient Conditions When Sample Delivery Group ID Ambient Condition Sample Condition Sample Delivery Group ID Ambient Condition Sample Conditi	5V-28 A	1100 863			12:51			15:26		To al land	102 m/ 1 20			
Ambient Conditions When Sampling Temperature (F) Barometric Pressure (mmHg) Temperature (F) Barometric Pressure (mmHg) Structions: Structions: Cal. Tube ID: Date Lab or Lab or Lab or Lab or Field Field Flow Meter Make/Serial # Operator Post-Survey Post-Survey Post-Survey Post-Survey Received by: (signature) Date/Time: Bate/Time: Courier Name Shipment Condition Sample Delivery Group ID Custody Seal Intact Custody 5	SW-18 B	1100 880	*	,	12:51		7	15:26			20 al / a in	>		
Temperature (F) Barometric Pressure (mmHg) Date 14 ° F 25, 2.6 MM Hs Pre-Survey Istructions: Structions: Courier Name Type F Date/Time: Courier Name Type F Date/Time: Courier Name Type F Date/Time: Shipment Condition Sample Delivery Group ID Courier Name Type F Post-Survey Received by: (signature) (signature) Received by: (signature) Received		Ambient Conditio	ons When Sampling						l ma	no(s) Calibration a	nd Flow Rate Chock			
TH o F		Temperature (I		etric Pressur	e (mmHa)	Date	Cal. Tube I	:	4	Lab or				
Structions: Post-Survey Post-Time: (signature) Post-Time: Post	Start	2076		1.26 m	HK	10/27	Pre-9	Survey	Dale		eter Make/Senal #	Operator	name	
Structions: Courier Name Courier Sample Delivery Group ID Custody Seal Intact C	Stop				1		Post-	Survey						
Pate/Time: Date/Time: Date/Time: Courier Name Shipment Condition Sample Delivery Group ID Custody Seal Intact Custody Custody Seal Intact Custody Seal Intac	Special Notes/Ins	tructions:												
Courier Name Courier Name Date/Time: Courier Name Courier Name Courier Name Shipment Condition Sample Delivery Group ID Courier Name Courier Name Courier Name Shipment Condition Sample Delivery Group ID Custody Seal Intact Custody Seal Intact Custody Seal Intact Courier None Courier Name Cou	Relinquished by: (signature)	JEROS-4JORC		Date/Time:	9	2:30			Received		1	12.01	1	S
Courier Name Shipment Condition Sample Delivery Group ID Custody Seal Intact	Relinquished by: (signature)	}		Date/Time:					Received	v lidle	3	Bic	7.57	74
Courier Name Shipment Condition Sample Delivery Group ID Custody Seal Intact	Relinquished by: (signature)			Date/Time:					Received I	oy:	Date/Tii	me:		
Fed EX	Lab	Courier Na	ame		Shipment C	ondition		Sample D	elivery Gr		dy Seal Intact	Custody S	seal No.	
	Only	Fed Ex		0	()					(B)		102070	70	

Sage 4 of S



CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1 410-838-8780 / fax: 410-838-8740 Forest Hill, MD 21050

Tube ID Number Pump ID Number 1049249 R0A-P01-AA (20168290 H0 199664 S0168271 Ambient Conditions When Sampling Temperature (F) Baromete 74° F 25° T1° F 25°	Client Contact Information	nformation		Project Manager:	anager:			l					j	
Tube ID Number Pump	Company:	Maca		Phone.						BEACON Project	No.: 3588			
Tube D Number Cocation: Start Time S	Address:									Client PO No.		Ana		Matrix
Charles Sample Name Name Sample Name Name	City/State/Zin-			Project Na	me:					Analysis Turnarou	ind Time		-	L
The ID Number Pump Sampler Name Stop Time Stop Time Time Stop Time Tim	Phone:			Location:						Normal				ηİΑ
Counter Name Pump ID Number Shart Time Shop Time Shop Time Temp Pump Flow Flow Rase (Marken) Counter Name Shop Time Temp				Sampler N	ame(s):					☐ Rush (Specif				tnəi
Tube in Number Pump in Number Pump P				Star	t Time		Sto	p Time		Orange of O				
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Client Contact Information	Information		Project Manager:	nager: Joe	Ton	1	itaca Cintera con		BEACON Project No.: 3588B	lo.: 3588B			b	
Company:	NTEAA		Phone:	505-246	5-246-1600	-			Client PO No.		An	Analysis		Matrix
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Use	FedEX		0	(opure					Yes	No None				
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Client Confact Information	Information		Project Ma	Project Manager: Toe Tracy	2 Trues		They Cintera con	200	BEACON Project No.:	o.: 3588B				
Company:	LUTERA		Phone:	505 246-1660	991-9	0			Client PO No.		Ana	Analysis		Matrix
Address: 6	6000 ytun Blud NE St	JNE St 220	Project Name:	me: Nb,	Railya	101			Analysis Turnaround	nd Time			-	
City/State/Zip:	vergue,	ONES WN	Location:	V	1 man	IM			Normal					τίΑ t
Phone: 505			Sampler Name(s):	ame(s): //	NHS.	oh Frank	Mucher Co	de Short	Rush (Specify):): days				pien
			Star	Start Time	•	/ Stop	Stop Time		Pre-survey Measured	Post-survey	i i	8		mA \ 1
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SV-63-VS	HØ234849	INTERA-7	91/2/11	1316		11/2/16	1321		200	200	X			X
50-80-NS	G0166889	Invers-2	1112/16	1347		11/2/16	1352		200	200	×			X
54-08-05	HØ 231858	INTERA-2	11/2/11	1347		1112/16	1352		200	200	×			X
Sv-08-06	H023263Ø	Intella-1	11/2/11	1410		1112/16	5 lhl		200	002	X			X
30-80-NS	GB164508	I wrend - 2	1112/16	1410		11/2/16	1415		200	7.00	X			X.
54-06-02	1101399	Imrena-1	unib	1445		11/2/16	1450		200	200	X			X
50-80-02	GBIFFIRE	INTER4-7	1111116	14115		11/2/16	1450		100	200	X			X
50-80-05	H0234844	INTERA-1	11/1/16	1631		11/2/16	1636		200	200	X			×
SV-08-09	SV-08-09 11000601	INTERA-1	11/2/16	1631		1112/16	1636		200	200	×			×
	Ambient Con	Ambient Conditions When Sampling	ling					Pu	Pump(s) Calibration and Flow Rate Check:	nd Flow Rate Che	ck:			
	Temperature (F)		Barometric Pressure (mmHg)	e (mmHg)	Date	Cal. Tube ID:):	Date	Lab or Field Flow Met	Flow Meter Make/Serial #				
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Stop						Post-8	Post-Survey							
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Use Only	Feder			(octo					Yes	No (None				
				2										1

410-838-8780 / fax: 410-838-8740 2203A Commerce Road, Suite 1 Forest Hill, MD 21050

CHAIN-OF-CUSTODY RECORD

Client Contact Information	information		Project Manager:	nager: Toe	e Tras		Tracy Cintera com	com	BEACON Project No.: 3588B	lo.: 3588B				
Company:	INTERA		Phone: 505	17-	1600 /		/		Client PO No.		An	Analysis	Ma	Matrix
Address: 600	Address: 6000 Uptun Blud NE, St 220	WE, SI 220	Project Name	ne: Ab,	Richard	,			Analysis Turnaround Time	nd Time				
City/State/Zip:	Albrange, Mi	W 87/10	Location:	Albunder	ou MM				Normal			_	ıiA i	
Phone: 50	505- 246-160d		Sampler Name(s):	1 (s)=1	LH Suls.	Frank Ro	Roeder Clak	Jak Short	Rush (Specify):	days days			hnəid	
			Start	Start Time	11	Stop	Stop Time		Pre-survey Measured	Post-sur		1	ImA \ 1	SE
Location ID	Tube ID Number	Pump ID Number	Date	Time	Temp. (F)	Date	Time	Temp. (F)	Pump Flow Rate (mL/min)	Flov	TI-OT	82608	TICs	Soil G
SV-106-10	G0 1779 69	INTERA 2	1112/11	1621		11/7/11	1656		200	200	义			X
81-3D-18	1849357	INTERA 1	11/2/16	1651		1112/16	1656		200	200	×			×
Sv-03-03	HØ23458Ø	Intello 1	11/3/16	0505		11/3/16	0150		200	260	X			X
SV-03-03	SV-03-03 HØ233696	Inted 1	11/3/16	0905		11/3/16	0160		200	200	\times			X
5~-03-02	Sv-03-02 GB 178581	INTERA 2	1113116	0521		11/3/16	9250		200	200	×			X
Sv-03-02	2681777 B	INTERA 1	11/3/16	1750		11/3/16	0926		200	200	×			X
50-03-01	HB 234875	Intera 2	11/3/16	9850		41.3116	1450		200	200	×			X
Sv-03-61	GOITTHEN	INTERA 1	11/3/16	9850		11/3/16	1460		2002	200	X			×
54-08-07	60164568	INTELA I	11/3/11	1036		11/2/11	lhoi		200	202	X			X
FO-80-15	HØ231896	INTERA 7	11/3/16	1036		11/3/16	lhol		200	200	X			X
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Stop						Post-Survey	Survey							
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Lab	Courier Name	r Name		Shipment Condition	ondition		Sample Delivery Group ID	elivery Gr		Custody Seal Intact	•	Custody Seal No.	eal No.	
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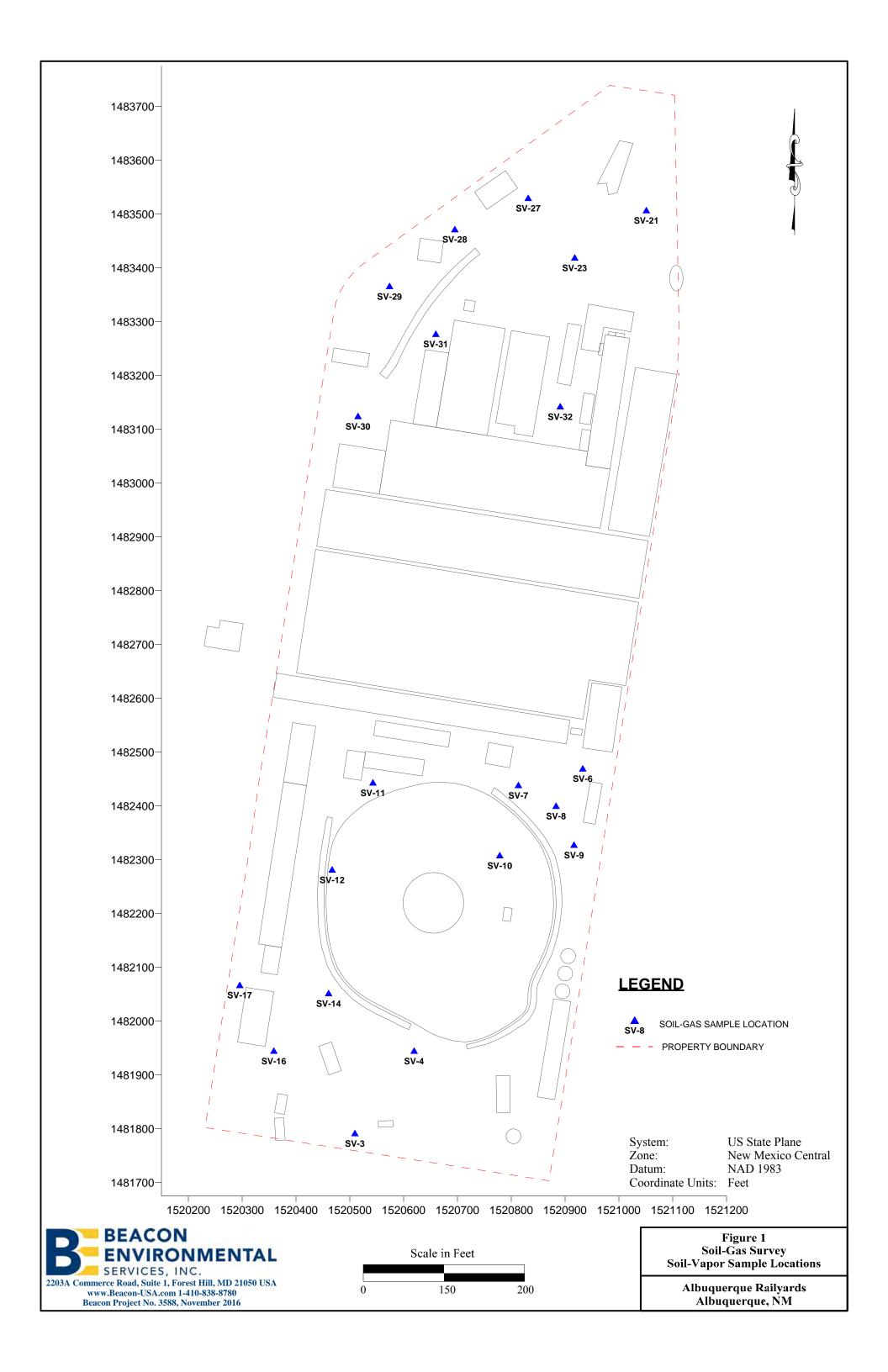
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Client Contact Information	Information		Project Manager:		Joe Tines	1 tines	tracy Cintern. con	3	BEACON Project No.: 3588B	Io.: 3588B				
Company:	INTERA		Phone:	505-24	9-246-1606	101			Client PO No.		Ar	Analysis		Matrix
Address: 60	6000 Upton Blw NE, 5-1. 220	INE, 5-1. 220	Project Name:	1	Aby Roilyerd	,			Analysis Turnaround Time	nd Time				L
City/State/Zip:	Albanga, 1	01/63 WN	Location:	Albusy	vergue A	un			Normal N					iA Ji
Phone:	505-246-1600		Sampler Name(s):	1	14 50	h, Frak	Noccher (Jek Shul	Rush (Specify):	y): days				nəid
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Location ID	Tube ID Number	Pump ID Number	Date	Time	Temp. (F)	Date	Time	Temp. (F)	Pump Flow Rate (mL/min)	Flov	71-OT	82608	aOIT	loobril 9 lio8
SV-08-08	46234589	Intera 2	11/3/16	1100		11/3/16	5011		200	200	×			X
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Sv-08-01	G0164999	INTERA 1	11/3/16	1126		11/3/16	1131		200	200	X			X
SV-08-01	HO 233606		11/3/16	1126		11/3/16	1131		200	700	×			X
12-50-15	1100817	INTER I	11/3/16	1317		11/3/16	1322		200	200	X			×
54-45-01	5v-65-01 HB 234865	INTEN 1	W13/16	1317		11/3/16	1322		002	200	X			X
5v-20-02	5546401	Intell 1	11/3/16	1333		11/3/16	1342		007	200	X			×
Sv-05-02	104 9361	INTERA 1	1113116	1337		11/3/16	1342		200	200	X			×
50-85-03	SV-05-03 1049520	INTERA 1	11/3/16	1405		11/3/11	0141		200	200	×			X
SV-05-03	1849196	INTERN 1	11/3/16	1405		11/3/16	Olhi		700	700	X			×
	Ambient Con	Ambient Conditions When Sampling	ng					PI	Pump(s) Calibration and Flow Rate Check:	and Flow Rate Che	eck:			
	Temperature (F)		Barometric Pressure (mmHg)	(mmHg)	Date	Cal. Tube ID:	:a	Date	Lab or Field Flow Me	Flow Meter Make/Serial #				
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Stop						Post-	Post-Survey							
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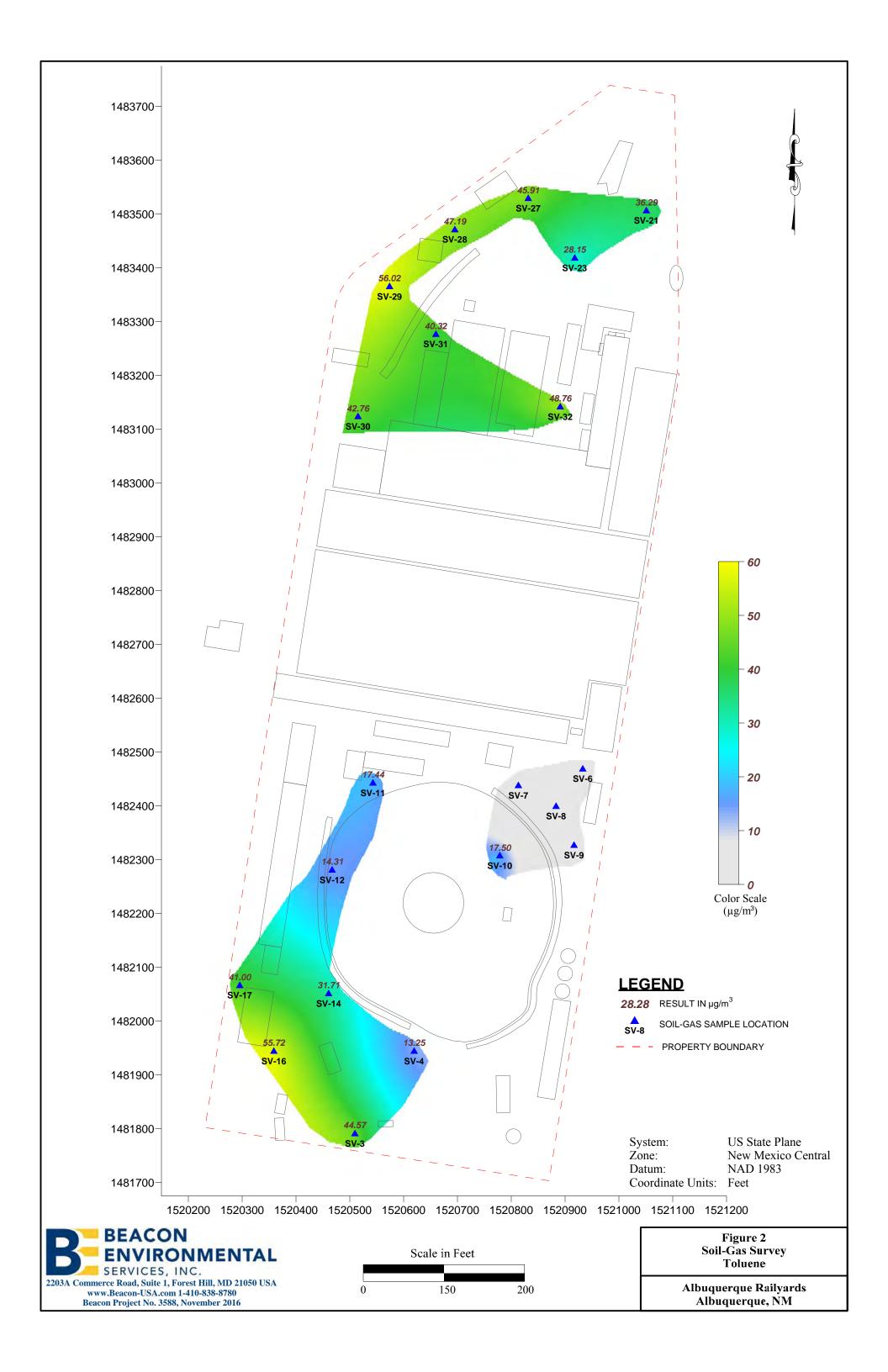
2203A Commerce Road, Suite 1 410-838-8780 / fax: 410-838-8740 Forest Hill, MD 21050

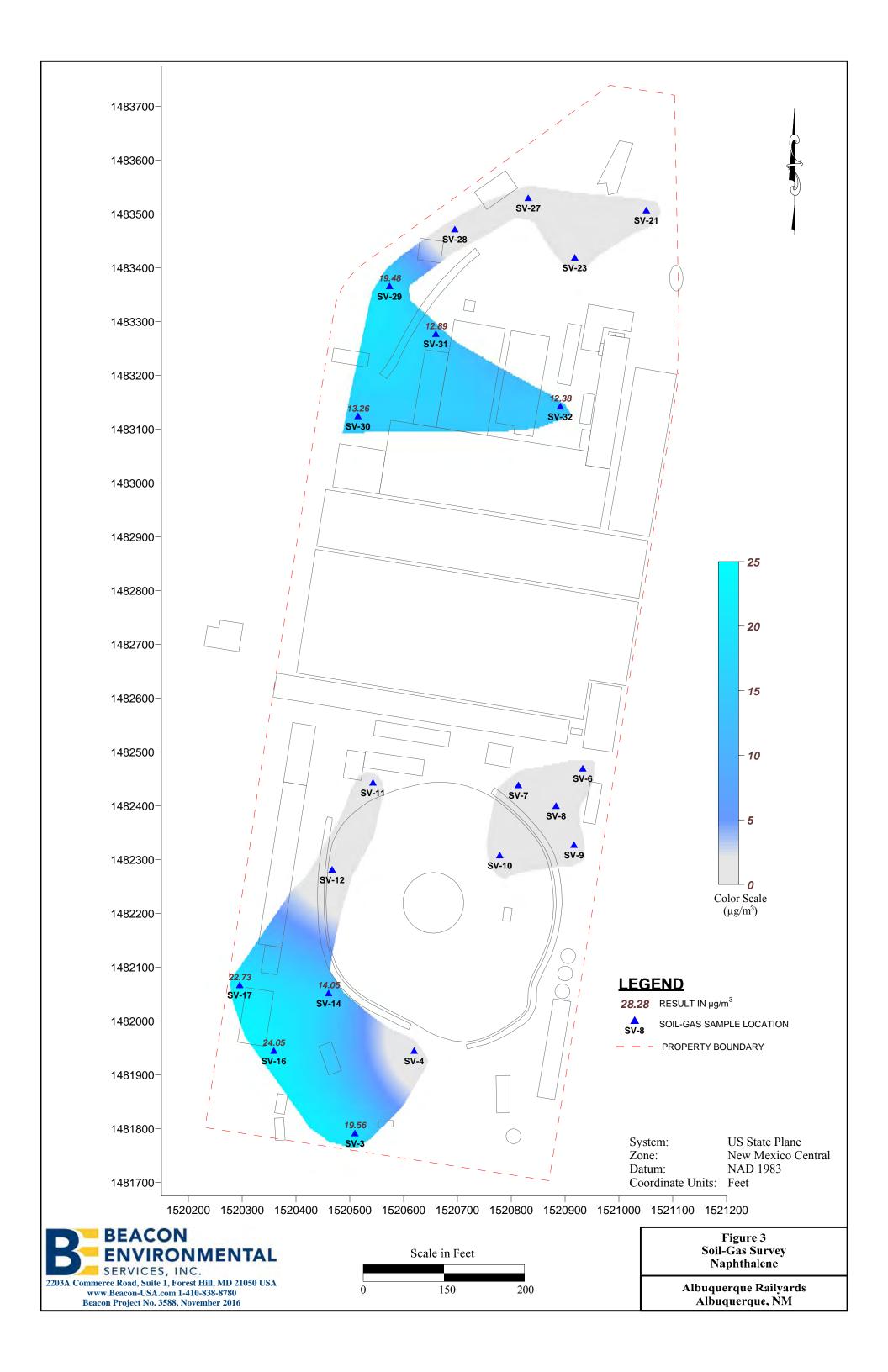
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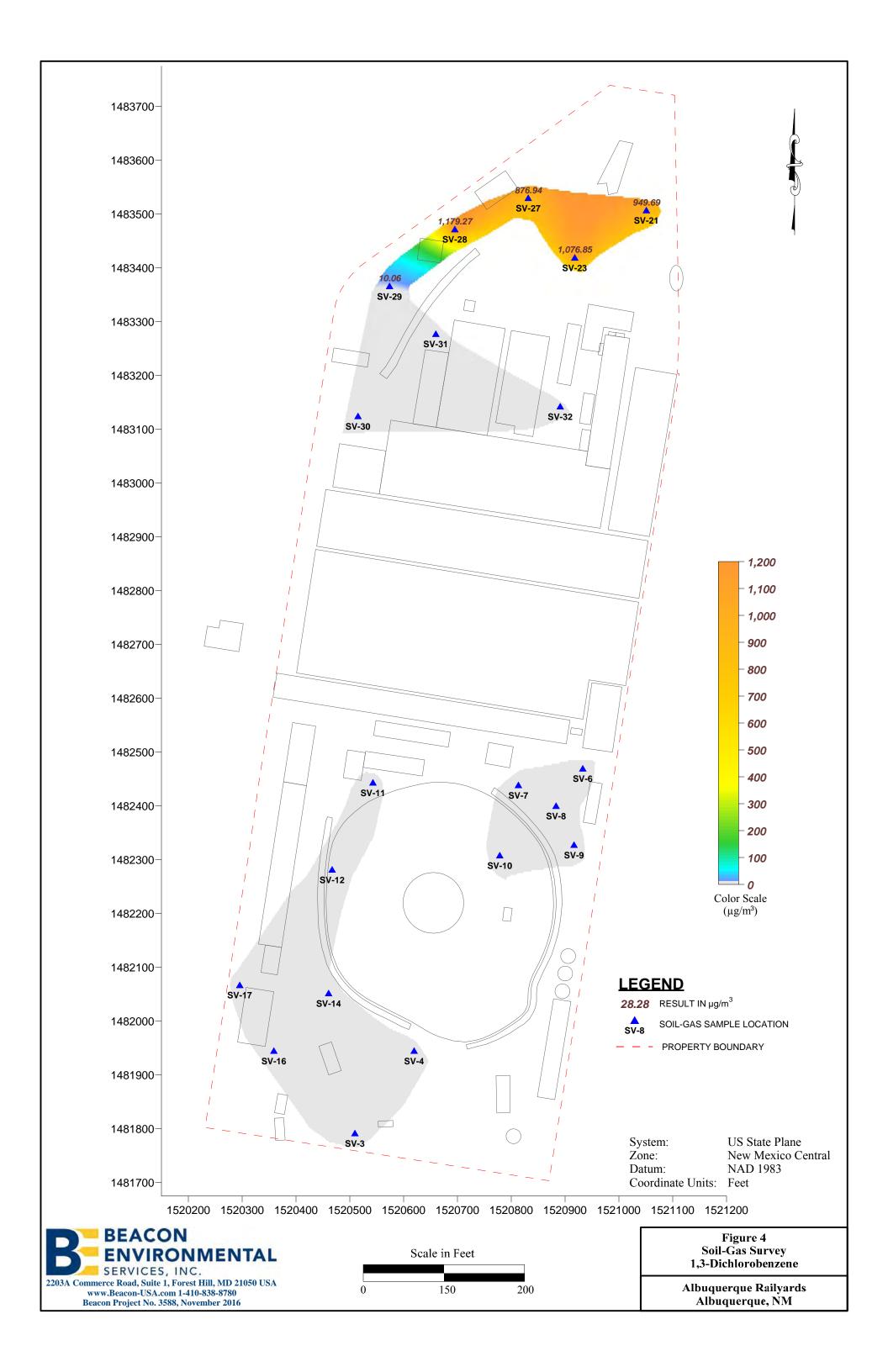
Client Contact Information	nformation		Project Manager:	-	2. 110		They Pintela 100	100	BEACON Project No.: 3588B	at No.: 3588B				
				E.S. 7.11	11 11	1	1					1000	3 (MAR. 4. P.
Company:	LMTERA		Phone:	305- 246	009/-947				Client PO No.		A	Analysis		Matrix
Address: GOOL	Address: GOOU Uptur Blug NE	NE 51220	Project Name:		Aby Railser	P			Analysis Turnaround Time	round Time			-	1
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			Star	Start Time	_	Stop	Stop Time		Pre-survey Measu			8		11 A N
Location ID	Tube ID Number	Pump ID Number	r Date	Time	Temp. (F)	Date	Time	Temp. (F)	Pump Flow Rate (mL/min)	Flov	1-01	82601	TICs	oobni Soil (
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5v-05-04	H0231898	INTERA-1	111811	1423		11/3/16	1428		200	200	X			×
50-05-04	5v-05-04 H0234573	INTERA-1	11/3/16	1423		11/3/11	1428		200	200	X			X
50-05-06 1101163	1101163	INTERS-1	1163716	1501		11/3/16	1506		200	200	×			X
2V-05-06	1100803	INTERA-1	11/3/10	1501		11/3/16	9051		200	200	×			×
	Ambient Con	Ambient Conditions When Sampling	ling					P	imp(s) Calibrati	Pump(s) Calibration and Flow Rate Check:	eck:			
	Temperature (F)		Barometric Pressure (mmHg)	re (mmHg)	Date	Cal. Tube ID:	.i	Date	Lab or Field Flow	Flow Meter Make/Serial #				
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Stop						Post-	Post-Survey							
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1 4 10 14	2	10 01 - 10 O	No.	nrs octo	Sampli	الم ، المدراء	7 Or 13	2	+		- 18			
(signature)	J. W. W.	KIN	11/3/2016	2016	1/3	7. The		(signature)	0	Mindrey Robert du 17/8		3700	14:28	28%
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APPENDIX C

Calculation of Vapor Intrusion Screening Levels for Evaluation of Soil Gas Vapor Concerns at the City of Albuquerque Rail Yards,
Albuquerque, Bernalillo County, New Mexico

CALCULATION OF VAPOR INTRUSION SCREENING LEVELS (VISLs) FOR EVALUATION OF SOIL GAS VAPOR CONCERNS AT THE CITY OF ALBUQUERQUE RAIL YARDS, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

INTERA Incorporated (INTERA) calculated Vapor Intrusion Screening Levels (VISLs) using the U.S. Environmental Protection Agency (EPA) VISLs Calculator for detected constituents where the New Mexico Environmental Department (NMED) does not have established VISLs. These VISLs were calculated in order to evaluate soil vapor data collected at the City of Albuquerque (COA) Rail Yards, Albuquerque, Bernalillo County, New Mexico (Site). A list of VISLs calculated by INTERA using the EPA VISL Calculator for the Site are presented in the following table:

Table 1
EPA VISLs calculated for the COA Rail Yards, Albuquerque, New Mexico

Chemical of Potential Concern (COPC)	CAS Number	EPA VISL (μg/m³)
1,2,4-Trimethylbenzene	95-63-6	240
1,4-Dioxane	123-91-1	190

These VISLs represent target sub-slab and exterior soil gas concentrations for Site chemicals of potential concern (COPCs) and were calculated using default exposure parameters and factors altered to reflect Site-specific parameter options as provided in EPA's VISL Calculator (Version 3.5.1). The VISL Calculator incorporates basic guidance documented in EPA's VISL Calculator User's Guide (EPA, 2014) and is available for download at the following EPA website: https://www.epa.gov/vaporintrusion/vaporintrusion-screening-levels-visls. A brief description of default exposure parameters and factors used to in the calculation of EPA VISLs as well as the rationale for Site-specific inputs utilized by INTERA in the VISL Calculator are discussed further below.

As documented in the EPA VISL Calculator User's Guide (EPA, 2014), VISLs are calculated using recommended approaches in existing guidance and reflect target EPA indoor air concentrations modified to incorporate empirically-based conservative "generic" attenuation factors that reflect generally reasonable worst-case conditions. Standard default (generic) VISLs are based on default exposure parameters and factors that represent Reasonable Maximum Exposure [RME] conditions for long-term/chronic exposures and incorporate the latest toxicity values in the Regional Screening Levels (RSL) tables (EPA, 2014). The EPA RSL tables were last updated in May 2016 and are available for download at the following EPA website: http://www.epa.gov/region9/superfund/prg/.

When using the VISL Calculator, standard default VISLs can be adjusted slightly to reflect the following Site-specific criteria: (1) applicable site exposure scenario (either residential or commercial), (2) target risk for carcinogens, (3) target hazard quotient for non-carcinogens, and (4) average in-situ ground water temperature (stabilized temperature measured during well purging prior to ground water sampling).

INTERA inputted the following site specific information to calculate site-specific VISLs for the Site.

(1) Exposure scenario: Residential, and

(2) Total Target Carcinogenic Risk: 10E-5

These parameters were considered most appropriate to represent Site conditions reflective of future decision-making needs: Assigning a less conservative total target carcinogenic risk of 10E-5 is standard practice for assessing carcinogenic risk within the State of New Mexico as described in the New Mexico Environment Department (NMED) document, Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2015). All other parameters used to calculate VISLs for the Site were reflective of default values, listed for completeness, below:

- Target Hazard Quotient for Non-carcinogens: 1
- Average Ground Water Temperature: 25 (degrees C)
- Default Inhalation Pathway Exposure Parameters (RME) for the Residential Exposure Scenario:
 - o Averaging time for carcinogens: 70 (yrs)
 - o Averaging time for non-carcinogens: 26 (yrs)
 - o Exposure duration: 26 (yrs)
 - o Exposure frequency: 350 (days/yr)
 - o Exposure time: 24 (hr/day)
- Generic Attenuation Factors:
 - o Groundwater Source for Vapors: 0.001
 - o Sub-Slab and Exterior Soil Gas Source for Vapors: 0.03
- Inhalation Unit Risk for Trichloroethylene (TCE) for the Residential Exposure Scenario:
 - o Mutagenic component: 1.00E-6
 - o Non-mutagenic component: 3.10E-6
- Mutagenic-mode-of-action (MMOA) adjustment factor: 72
- Exposure Durations and Age-Dependent Adjustment Factors for MMOAs:
 - o 0 to 2 years: 10
 - o 2 to 6 years: 3
 - o 6 to 16 years: 3
 - o 16-26 years: 1

These default parameters are exposure factors based on EPA's Risk Assessment Guidance for Superfund [RAGS] (EPA, 1989) or EPA vapor intrusion guidance. In general, EPA discourages the alteration of these default parameters (EPA, 2014).

Several COPCs identified for the Site were unable to have an EPA VISL calculated for the following reasons:

- (1) 1,3-Dichlorobenzene (CAS # 541-73-1): no information for this chemical is currently listed
- (2) 2-Methylnaphthalene (CAS # 91-57-6): no inhalation toxicity information for this chemical is currently available
- (3) 1,3,5-Trimethylbenzene (CAS # 108-67-8): no inhalation toxicity information for this chemical is currently available.

REFERENCES

Environmental Protection Agency (EPA). 2014. Vapor Intrusion Screening Level (VISL) Calculator User's Guide. Office of Solid Waste and Emergency Response Office of Superfund Remediation and Technology Innovation. May.

 2016. EPA VISL Calculator from https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-levels-visls. Updated May.
—. 1989. Risk Assessment Guidance for Superfund Volume I Human Health Evaluation Manual (Part A). Interim Final. Office of Emergency and Remedial Response Document EPA/540/1-89/002. December.

New Mexico Environment Department. 2015. Risk Assessment Guidance for Site Investigations and Remediation. July 2015.

APPENDIX D

Asbestos and Lead-Based Paint Report(s)



ASBESTOS AND LEAD BASED PAINT SURVEY City of Albuquerque Railyard Blacksmith Shop Parcel 7 Albuquerque, NM



PREPARED FOR:

Intera, Inc. 6000 Uptown Blvd, Suite 220 Albuquerque, New Mexico, 87110

PREPARED BY:

DC Environmental PO Box 9315 Albuquerque, New Mexico 87119

> November 9, 2016 Project No. 16-177



November 9, 2016 Project No. 16-177

Mr. Joe Tracy Intera Inc. 6000 Uptown Boulevard, NE Suite 200 Albuquerque, NM 87110

Subject: Asbestos and Lead Based Paint inspection of the Blacksmith Shop Parcel 7 – City of

Albuquerque Railyard

Dear Mr. Joe Tracy;

In accordance with our proposal, DC Environmental has performed asbestos and lead based paint inspections of the above-referenced facility, located at the City of Albuquerque Railyard, 1100 2nd St SW, Albuquerque, New Mexico. The attached report presents our methodology, findings, opinions, and recommendations regarding the survey.

Lead Containing materials were identified at the Blacksmith Shop. Asbestos-containing materials were not identified at the Blacksmith Shop.

We appreciate the opportunity to be of service to you on this project. Should you have any questions regarding this report, please contact the undersigned at your convenience.

Sincerely,

ACME ENVIRONMENTAL INDUSTRIAL HYGIENE, INC. dba DC Environmental

David Charlesworth

Karen Dremann

J. David Charlesworth, Certified Industrial Hygienist Karen Dremann Senior Scientist

Distribution: (2) Addressee

AEIH, INC PO BOX 9315 Albuquerque, NM 87119 tele: 505.869.8000 fax 505.869. 9453

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EXECUTIVE SUMMARY

On October 26, 2016, DC Environmental performed an inspection of the Blacksmith located at the City of Albuquerque Railyard on 2nd Street in Albuquerque, New Mexico. The inspection was conducted in a response to a request to identify materials that may be impacted during future renovation or demolition activities. The focus of our inspection was to determine the presence, location and quantity of asbestos remaining within the facility, and to establish the basis for the presence of lead containing finishes within the structure. The space is being evaluated for a confidential client and the concern is that existing materials may contain asbestos and lead in the finishes.

The inspection design was to conduct a room-by-room investigation for asbestos-containing building materials. Access the functional spaces, where appropriate; evaluate the exterior surfaces; and sample materials suspect for asbestos within the Blacksmith Shop.

Asbestos-containing building materials are those containing greater than one percent asbestos as determined by polarized light microscopy. No asbestos was detected in any of the building materials DC Environmental sampled. Previous sampling has indicated asbestos to be present in the structure. In 2013, Rhoades indicated asbestos within the Plaster on the inside of the Office Shack. This building materials was not identified on the current inspection. The Blacksmith Shop has asbestos-containing window putty on several different types of window construction types. Rhoades has determined the window putty on the Clear Glass Panes, the Wood [Frame] Panes, and the Plastic Panes. Based on these results from previous inspections, we recommend the window glazing in the Boiler Shop and the Office Shack be handled as asbestos-containing building material. The gray roofing parapet (flashing) tar is asbestos-containing building material as well.

Lead-based paint is defined as coatings containing surface area lead of 1.0 milligrams per square centimeter (1.0 mg/cm²) when evaluated by X-Ray Fluorescence. Lead based paint is further defined if laboratory analysis determines the lead content to be one half (0.5 %) percent by weight or greater. The lead inspection of the facility was conducted using an X-Ray Fluorescence (XRF) handheld instrument of select components or areas. The inspector did identify painted surfaces with excess lead above the stated regulatory limit. Lead-based paint has been identified in previous inspections. The Silver Paint atop the structural steel columns is lead-based paint. The Office Shack has several components coated with lead-based paint. Innovar in 2011 identified the silver coated columns and brick as lead-based paint. Interviews with Railyard representatives indicated that the ceiling was lead-based paint and that efforts to mitigate the lead dust hazard had been performed. The floor marking or striping paint was previously unidentified. This striping was sampled and is considered lead-based paint.

<u>Lead-containing</u> materials are those with detectable levels of lead in the materials however not at levels above 1.0 mg/cm2. Lead containing materials were identified at the Blacksmith Shop (see Appendix B XRF Lead Measurements). Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

1. INTRODUCTION

In accordance with our proposal, DC Environmental has performed an investigation of the Blacksmith Shop located at the City of Albuquerque Railyard in Albuquerque, New Mexico.

The inspection was conducted in a response to a request to have building materials evaluated for future renovation or demolition activities. The focus of our inspection was to determine the presence, location and quantity of asbestos and lead based paint present within the facility. The building is being inspected

for a confidential client and the concern is that existing materials may contain asbestos in building materials and lead in the painted finishes.

This report has been prepared in accordance with generally accepted environmental science and engineering practices. This report is based upon conditions at the subject building at the time of the sampling activities and provides documentation of our findings and recommendations.

2. PURPOSE AND SCOPE OF SERVICES

The inspection design was to conduct a room-by-room investigation and assess the facility for the presence of asbestos-containing building materials, and lead-based paint.

The objective of this inspection was to perform the requisite sampling and present the findings along with any recommendations. The services performed by DC Environmental are outlined below.

- A reconnaissance of the area was conducted by Mr. David Charlesworth, CIH, Mr. Michael Neiman, and Mr. Steven Gutierrez all accredited Asbestos Building Inspectors. Mr. Nieman and Mr. Gutierrez are Certified Lead Inspectors.
- Sampling was conducted using several different types of inspection tools and laboratory techniques including Polarized Light Microscopy and X-Ray Fluorescence.
- Report preparation summarizing our sampling methods and laboratory analysis are included. This report further details our conclusions and recommendations for the project.

3. SITE DESCRIPTION

The subject site consists of one structure, the Blacksmith Shop.

The Blacksmith Shop

The Blacksmith Shop consists of a single, large structure with an office along the west wall. The Blacksmith Shop is a brick, steel and concrete structure. A vast number of window panes set in metal mullions comprise the East and West Elevations. The central office is concrete and metal with a wood ceiling system. The entire floor of this structure is concrete. Access to the roof was by a mechanical lift. Roofing appeared to be gravel and tar over felt paper on top of concrete.

4. ACTIVITIES

DC Environmental conducted a lead-based paint investigation and asbestos-containing building materials inspection on October 26, 2016 of the Blacksmith Shop. Analysis of the Interior and exterior painted surfaces incorporated the use of an X-Ray Fluorescence Device. The Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device was used to measure the lead content of surface coatings on representative homogenous components. Multiple XRF readings were recorded.

The site sampling activities are described below.

4.1. Asbestos-Containing Building Materials

Mr. David Charlesworth, Mr. Michael Nieman, and Mr. Steven Gutierrez conducted a visual inspection for asbestos-containing building materials at the above referenced building. Mr. Nieman collected eight (8) samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy

bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC of Carrollton, Texas. Crisp Analytical is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program. Based upon the samples tested, none of the materials sampled were identified as asbestos-containing material.

Previous sampling has indicated asbestos to be present in the structure. In 2013, Rhoades indicated asbestos within the Plaster on the inside of the Office Shack. This material or sample location was not identified on the current inspection. The Blacksmith Shop has asbestos-containing window putty on several different types of window construction types. Rhoades has determined the window putty on the Clear Glass Panes, the Wood [Frame] Panes, and the Plastic Panes. Based on these results from previous inspections, we recommend the window glazing in the Boiler Shop and the Office Shack be handled as asbestos-containing building material. The gray roofing parapet (flashing) tar is asbestos-containing building material as well.

The Environmental Protection Agency has established terminology regarding asbestos and specifically asbestos-containing building materials. Material which is friable are those materials which can be crushed, crumbled or reduced to powder by hand pressure. Non-friable materials are further characterized as Category I Non-Friable or Category II Non-Friable. Category I Non Friable includes four specific items: Packings, Gaskets, Resilient Flooring and Asphalt Roofing. Category II Non-Friable is everything else which cannot be crumbled or pulverized by hand pressure. These items include materials of drywall systems, plasters, asbestos-containing cements (Transite ®) and other materials declared non-friable by the asbestos inspector.

The EPA then clarifies that certain materials are Regulated Asbestos Containing Materials (RACM) and these include the following four designations:

- Friable materials;
- Category I Non-Friable Materials which have become friable;
- Category I Non-Friable Materials which have been subject to sanding, grinding, cutting and abrading; and
- Category II Non-friable materials which will be, or have been, subject to force during demolition or renovation.

Regulated Asbestos Containing Materials were present within the structure. The window putty or window glazing should be treated as RACM within this structure. The roof parapet tar should be handled as asbestos. Though not identified in this inspection, the plaster identified in 2013 should be treated as RACM.

4.2. Lead Based Paint Inspection

The presence of lead based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DC Environmental conducted a lead-based surface coating screening survey of the interior and exterior of the property to generally identify building components coated with lead.

The survey consisted of testing the lead concentrations of each of the accessible surfaces.

To complete the survey, an X- Ray Fluorescence device was used to perform the lead based paint inspection. The Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device is capable of

detecting lead in lead-based paint. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter. If the readings were between the 0.9 to 1.0 mg/cm² range, then the readings are declared as either lead-based paint or lead-containing materials and sampling is recommended.

Surfaces that were tested with the XRF device included, but were not limited to the following: doors, columns, painted brick, window and door framing.

To determine the wall designations, the front entry off the street or primary doorway is the A wall and interior in a clockwise direction are the B, C and D walls respectively. Exterior walls are similar in the designations.

The XRF device recorded readings did indicate lead based paint in surfaces on the interior and exterior of architectural details and finishes. Please refer to the XRF readings in the appendix to this document.

5. ANALYSES AND RESULTS

The results of samples and analysis are presented in the following tables. Copies of the laboratory analytical results are included in the appendix to this document.

5.1. Table 1: Asbestos Sample Analysis

Sample #	Blacksmith Shop	Asbestos Type/calibrated/Visual estimate percent
Sample #	Analyst physical description of subsample	estillate percent
16-177-100	Blacksmith shop office roof felt	ND
16-177-101	Blacksmith shop office roof felt	ND
16-177-102	Firebrick from inside furnace inside Blacksmith shop	ND
16-177-103	Firebrick from inside furnace inside Blacksmith shop	ND
16-177-104	Firebrick from inside furnace inside Blacksmith shop	ND
16-177-105	Steel casement window putty Blacksmith shop	ND
16-177-106	Blacksmith shop office wood window putty	ND
16-177-107	Blacksmith shop office wood window putty	ND

ND – None Detected

5.2. Table 2: Lead Based Paint Chip Analysis

Sample #	Blacksmith Shop Analyst physical description of subsample	Lead Based Paint Type/calibrated/Visual estimate percent
16-177-1000	White floor stripe Blacksmith Shop	0.81%

6. FINDINGS AND CONCLUSIONS

The findings of this inspection are based on our visual observations and analysis of the measurements collected from the facility. Our findings are presented below.

6.1 Asbestos Sampling Analysis

The current visual inspection and sampling of building materials revealed no previously undocumented sources of asbestos-containing building materials. Asbestos-containing building materials were identified in the Blacksmith Shop in previous building inspections.

Asbestos-containing building materials include the plaster on the interior of the Office Shack, The window putty and the roofing parapet tar. Again, Rhoades in 2013 determined the window putty on the Clear Glass Panes, the Wood Panes, and the Plastic Panes to be asbestos containing. Based on these results from previous inspections, we recommend the window glazing in the Boiler Shop and the Office Shack be handled as asbestos-containing building material.

6.2 Lead Based Paint Analysis

DC Environmental conducted a lead-based surface coating inspection of the interior and exterior of the property to generally identify building components coated with or containing lead. The survey consisted of testing the lead concentrations of over the majority of the interior and exterior surfaces.

During the survey, testing combinations in representative room equivalents were sampled by X-Ray Fluorescence (XRF) in substantial compliance with the XRF protocols established by EPA and presented as guidance in the Housing and Urban Development (HUD) publications. Performance of this survey is consistent and in substantial compliance with the documented methodologies identified by EPA and HUD.

Based on the readings from the XRF devices materials at the Blacksmith Shop were considered painted with Lead-based Paint (LBP).

Lead-Based Paint (LBP) is defined by HUD and the EPA as paint containing lead in amounts greater than or equal to 1.0 mg/cm² lead when analyzed by XRF or greater than 5000 parts per million or 0.5 percent by weight when analyzed by Flame Atomic Absorption.

There are materials in this building though, that are considered "lead-containing". Those materials are listed in Appendix B, XRF Lead Measurements. Contractors should follow the elements of the

standard promulgated by the Occupational Safety and Health Administration. The Lead in Construction Standard 29 CFR 1926.62 applies to exposures to materials containing lead. Lead containing materials were identified at the Blacksmith). Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

Lead-based paint has been identified in previous inspections. The Silver Paint atop the structural steel columns is lead-based paint. The Office Shack has several components coated with lead-based paint. Innovar, in 2011, identified the silver coated columns and brick as lead-based paint. Interviews with Railyard representatives indicated that the ceiling was lead-based paint and that efforts to mitigate the lead dust hazard had been performed. The paint on the ceiling was in poor condition and contractors were brought in to both power wash and clean the existing surfaces. The floor marking or striping paint was previously unidentified. This striping was sampled and analyzed by atomic absorption spectroscopy. Analysis of the paint has indicated the striping to be 0.81 percent and is considered lead-based paint.

7 RECOMMENDATIONS

Based on our visual observations and the laboratory results, DC Environmental recommends the following:

- Select materials containing asbestos have been identified in the facility. Asbestos is present in the above identified materials. The materials containing asbestos will require abatement before substantial renovation or demolition can commence.
- The Lead-based Paint inspection did identify "lead-based paint" at the Blacksmith Shop. Lead-containing items were identified at the Blacksmith Shop. Those material are listed in Appendix B, XRF Lead Measurements. These materials are regulated by OSHA in regards to those individuals which could be exposed during repair, renovation or demolition. It is recommended to have trained professionals in the OSHA Lead Construction standard handle the lead-based paint and lead-containing materials during disturbance of the material. At the conclusion of the construction activities we recommend a Lead Risk Assessment to include soil testing and settled dust be performed. A Lead Risk Assessment is recommended for this property based on the age and that children are expected to be present. A Risk Assessment should be conducted at the conclusions of operations to repair, renovate or abate the lead-based paint.

We appreciate the opportunity to provide sampling and inspection of this area. Should you have additional questions, or if conditions change substantially, please contact us at your earliest convenience.

Sincerely,

DC Environmental
David Charlesworth
Certified Industrial Hygienist

LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

The environmental interpretations and opinions contained in this report are based on the results of instrumentation, laboratory tests and/or analyses Acme Environmental Industrial Hygiene, Inc. dba DC Environmental, has no involvement in, or control over, such equipment, testing and/or analysis. Acme Environmental Industrial Hygiene, Inc., therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme Environmental Industrial Hygiene, Inc., has no control.

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This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

Appendix A Asbestos Laboratory Results

CA Labs

Dedicated to

Quality

Crisp Analytical, L.L.C.

1929 Old Denton Road Carrollton, TX 75006 Phone 972-242-2754 Fax 972-242-2798



CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

DC Environmental Attn: David Charlesworth

PO Box 9315 Customer Project: DCE 16-177, Rail yard Parcel 7 Blacksmith Shop Albuquerque, NM 87119 Reference #: CAL16117605JE Date: 11/16/2016

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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Crisp Analytical, L.L.C.

1929 Old Denton Road Carrollton, TX 75006 Phone 972-242-2754 Fax 972-242-2798 CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

 Customer Project:
 DCE 16-177, Rail yard Parcel 7 Blacksmith Shop
 CA Labs Project #:
 CAL16117605JE

 Sample #
 Layer
 Analysts Physical Description of Asbestos type /

Subsample calibrated visual List of Affected Building estimate percent Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235 **AIHA LAP, LLC Laboratory #102929**

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder pe - perlite qu - quartz fg - fiberglass mw - mineral wool wo - wollastinite pa - palygorskite (clay)

ma - matrix mi - mica ve - vermiculite ot - other

or - organic

mw - mineral woo wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay)

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CA Labs Dedicated to Quality

Crisp Analytical, L.L.C.

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CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: David Charlesworth **Customer Project:** CA Labs Project #: CAL16117605JE DC Environmental PO Box 9315 DCE 16-177, Rail yard Parcel Albuquerque, NM 87119 11/16/2016 7 Blacksmith Shop Date: 11/10/16 10:30am **Turnaround Time:** Samples Received: Phone # 505-869-8000 5 Days 10/26/2016 **Date Of Sampling:** Fax# 505-869-9453 Purchase Order #: Analysts Physical Description of Asbestos type / Non-fibrous type Sample # Com Layer Homo-Non-asbestos fiber ment Subsample geneo calibrated visual type / percent / percent estimate percent us (Y/N)Blacksmith Shop Office Roof 100-1 Felt/ black felt 16-177-100 None Detected 18% ce 82% qu,ma,bi Blacksmith Shop Office Roof 101-1 Felt/ silver surfaced black tar 16-177-101 None Detected 12% ce 88% qu,mi,bi Firebrick From Inside Furnace Inside Blacksmith 16-177-102 102-1 Shop/ gray plaster None Detected 100% qu,ca Firebrick From Inside Furnace Inside Blacksmith 16-177-103 103-1 Shop/ gray plaster None Detected 100% gu,ca Firebrick From Inside Furnace Inside Blacksmith 16-177-104 104-1 Shop/ gray plaster None Detected 100% qu,ca Steel Casement Window Putty Blacksmith Shop/ tan 16-177-105 105-1 sealant None Detected 100% qu,ca Blacksmith Shop Office Wood Window Putty/ tan 16-177-106 None Detected 100% qu,ca 106-1 sealant

> Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted. Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate mi - mica fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clav) or - organic pe - perlite ta - talc pa - palygorskite (clay)

Approved Signatories: ma - matrix gu - guartz sy - synthetic

Stanley Massett

Sty Musser III

QAC Technical Manager Leslie Crisp, P.G. Chad Lytle

- Fire Damage significant fiber damage reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
- 3. Actinolite in association with Vermiculite
- 4. Layer not analyzed attached to previous positive layer and contamination is suspected
- 5. Not enough sample to analyze

- 6. Anthophyllite in association with Fibrous Talc
- 7. Contamination suspected from other building materials
- 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
- 9. < 1% Result point counted positive
- 10. TEM analysis suggested

CA Labs Dedicated to Quality

Crisp Analytical, L.L.C.

1929 Old Denton Road Carrollton, TX 75006 Phone 972-242-2754 Fax 972-242-2798

CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: David Charlesworth CA Labs Project #: **Customer Project:** CAL16117605JE

DC Environmental

PO Box 9315 DCE 16-177, Rail yard Parcel

Albuquerque, NM 87119 11/16/2016 7 Blacksmith Shop Date:

> 11/10/16 10:30am **Turnaround Time:** Samples Received:

Phone # 505-869-8000 5 Days 10/26/2016 **Date Of Sampling:**

Fax# 505-869-9453 Purchase Order #:

Sample # Analysts Physical Description of Asbestos type / Non-asbestos fiber Non-fibrous type Com Layer Homoment Subsample geneo calibrated visual type / percent / percent

> estimate percent us (Y/N)

Blacksmith Shop Office Wood Window Putty/ tan

16-177-107 107-1 sealant None Detected 100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted. Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

mi - mica ca - carbonate fg - fiberglass ce - cellulose gypsum - gypsum ve - vermiculite mw - mineral wool br - brucite bi - binder ot -other wo - wollastinite ka - kaolin (clay) or - organic pe - perlite ta - talc

pa - palygorskite (clay) Approved Signatories: ma - matrix qu - quartz sy - synthetic

Stanley Massett

Athe Must III

Technical Manager Leslie Crisp, P.G. Chad Lytle

- Fire Damage significant fiber damage reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
- 3. Actinolite in association with Vermiculite
- 4. Layer not analyzed attached to previous positive layer and contamination is suspected
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- 6. Anthophyllite in association with Fibrous Talc
- 7. Contamination suspected from other building materials
- 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
- 9. < 1% Result point counted positive
- 10. TEM analysis suggested

CACKEL1 7605

(D)			PO / Job#; DCI	E 16-177		Date:	10/26/2016	5
C E DC Environmental Consulting and Tra			Turn Around Tir	ne: Same	Day / IDay	2Day / 3	Day / 4Day	(5Day
O O Trinouting and the	ng Safety in the	e Workplace"	□ PCM: □ NIC	OSH 7400	/ 🗆 NIOSH	7400B	□ Rotome	ter
DC Environmental PO Box 9315 Albuquerque, NM 87119			□ PLM: □ Stan	ndard / 🗖	Point Count 4	00 - 1000	∕ □ CARB 4	435
Contact: J. David Charlesworth			☐ TEM Air: ☐	AHERA /	☐ Yamate2	/ 🗆 NIOSI	H 7402	
Phone:	Fax		☐ TEM Bulk: ☐ ☐ TEM Water:	☐ Potable	/ Non-Pot	able / IV	Veight %	
505.869.8000 E-mail:	505.	.869.9453	☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐					56(str/mass)
JDCharlesworthcih@gmail.			☐ IAQ Particle I ☐ Particle Identi	dentification (T	on (PLM LAB EM LAB)		☐ PLM Opa ☐ Special Pr	ques/Soot
Site: City of Albuquerque (I	intera)		☐ Metals Analys					-3
Site Location: Rail Yard Pa	rcel 7 Blacksn	nith Shop	Matrix: Analytes:					
Comments:			1					
				7				
Sample ID	Date	Sample Location / Descri	ription / Task		FOR AIR SAI			Sample Area /
				Type	Time On/Off	Avg. LPM	Total Time	Air Volume
16-177-100	10/26	Blacksmith shop offi	ce roof felt	A P C			711119	7 Olume
16-177-101	10/26	Blacksmith shop offi	ce roof felt	A P C				
16-177-102	10/26	Firebrick from inside for Blacksmith st		A P C				
16-177-103	10/26	Firebrick from inside for Blacksmith sl		A P C				
16-177-104	10/26	Firebrick from inside fu Blacksmith sl		A P C				
16-177-105	10/26	Steel casement wind Blacksmith sh	dow putty	A P C				
16-177-106	10/26	Blacksmith shop office putty	wood window	A P C				
16-177-107	10/26	Blacksmith shop office putty	wood window	A P C				
				A				
				A P				
Sampled By: Steven Gutierre	Z			С				
	DHL 🗆 UI	PS US Mail Courier	☐ Drop Off	□ Other:	•			
		Relinquished By:	3 Diop on			V.		
Relinquished By: Steven Gutierre Date / Time: 11/09/2016 5:00PM	ez	Date / Time:	Relinquished By: Date / Time:					
Received By:		Received By:		Received By:				
Date / Time: 11-10-70	10-301	Date / Time:		E	Date / Time:			
Condition Acceptable? Yes	□ No	Condition Acceptable?	e?			No		

Appendix B XRF Lead Measurements

Project # 16-177 Project Name Ail Yard Parcel 7 Blacksmith Shop Date 10/26/16

Address City of Albuquerque Railyards

Technician M. Nieman and S. Gutierrez

	Time :	1330			Results	Average
1		Cal.			1.0	
2		Cal.			1.0	
3		Cal.			1.0	1.0
4		Cal.			0.0	
5		Cal			-0.1	
6		Cal.			0.0	-0.0
XRF						
Test						
Numbe		Component -	Componen			Result /
r	Location / Room	Designation	t Number	Color	Substrate	Reading
7	Interior	A-Wall		Silver	Brick	-0.1
8		B-Wall		Silver	Brick	-0.4
9		C-Wall		Silver	Brick	-0.1
10		D-Wall		Silver	Brick	-0.0
11		Door	A-1	Silver	Steel	0.0
12		Door Frame	A-1	Silver	Steel	-0.1
13		Column		Silver	Steel	1.0
14		Exhaust Fan Housing		Silver	Metal	-0.0
15	Office	Ceiling		Silver	Wood	-0.1
16	Office	D-Wall		Black	Brick	0.3
	Office			Off-		
17		Window Sash		White	Wood	2.4
	Office			Off-		
18		Window Frame		White	Wood	0.3
	Office	Stall Casement		Off-		
19		Window Mullion		White	Steel	1.8
20	Office	C-Wall		Cream	Concrete	1.0
21	Office	Door Frame		Beige	Wood	0.0
22	Office	Floor		Black	Concrete	-0.1
23	Office	Roof		Silver	Metal	0.5
24	Office	Fascia		Silver	Wood	-0.0
25	Office	Soffit		Silver	Wood	0.1
26	Office	Window Frame		Silver	Metal	-0.1
27		Floor Striping		White	Concrete	>9.9
28		Floor Square		Red	Concrete	-0.1
29		Furnace		Silver	Steel	-0.0
30		Furnace Hood		Silver	Metal	-0.0
31		Pipe		Yellow	Steel	-0.2
32		Pipe		Red	Steel	-0.1

33	Exterior	B-Wall		Red	Brick	-0.3
34		Roof Ladder Cage		Red	Metal	-0.0
35		A-Wall Wall Plate		Red	Steel	-0.1
36		Window	A-2	Red	Steel	-0.1
37		Door Frame	A-1	Silver	Steel	-0.1
38		Down Spout		Red	Steel	0.2
39		Office Window		Red	Steel	2.3
40		D-Wall		Beige	Brick	0.7
41		Train Door	D-1	Beige	Steel	-0.1
	Tir	ne : 1430			Results	Average
42	Post	Cal.			1.0	
43	Post	Cal.			1.0	
44	Post	Cal.			1.0	1.0
45	Post	Cal.			-0.1	
46	Post	Cal.			0.2	
47	Post	Cal.			-0.1	-0.0

Appendix C Asbestos and LBP Data

ID Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
1 7	0.1	mg/cm2		1	Railyards Amtrack Office	Office	Α	Window	Rgt	Sill	QM	Wood	Brown	Interior	Innovar, 2011
2 8	0.1	mg/cm2		1	Railyards Amtrack Office	Office	Α	Window	Rgt	Sash	QM	Wood	Brown	Interior	Innovar, 2011
3 9	0.2	mg/cm2		1	Railyards Amtrack Office	Office	Α	Window	Rgt	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
4 10	0.2	mg/cm2		1	Railyards Amtrack Office	Office	Α	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
5 11	-0.2	mg/cm2		1	Railyards Amtrack Office	Office	В	Wall	U Ctr		QM	Plaster	White	Interior	Innovar, 2011
6 12	0	mg/cm2		1	Railyards Amtrack Office	Office	С	Door	Ctr	U Ctr	QM	Steel	Brown	Interior	Innovar, 2011
7 13	0	mg/cm2		1	· · · · · · · · · · · · · · · · · · ·	Office	С	Door	Ctr	Lft casing		Steel	Brown	Interior	Innovar, 2011
8 14	0.2	mg/cm2		1	· · · · · · · · · · · · · · · · · · ·		В	Window	Ctr	Sill	QM	Wood	Brown	Interior	Innovar, 2011
9 15	0.2	mg/cm2		3	· '		В	Window	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
10 16	0.2	mg/cm2		3	· '		В	Window	Clr	Sash	QM	Wood	1	Interior	Innovar, 2011
11 17	0	mg/cm2		3	· · · · · · · · · · · · · · · · · · ·	Office	Α	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
12 18	-0.2	mg/cm2		3	· '	Office	A	Wall	L Rgi			Plaster	White	Interior	Innovar, 2011
13 19	-0.2	mg/cm2		3	<u>'</u>		D	Door	Rgi	U Rgt		Steel	Brown	Interior	Innovar, 2011
14 20	0.1	mg/cm2		3	· '		D	Door	Rgt	LIt casing	QM	Steel	Brown	Interior	Innovar, 2011
	0.7	mg/cm2		4	,		В	Chair rail	Clr	l ft agains	QM	Wood		Interior	Innovar, 2011
16 22	0.2 >9.9	mg/cm2	Voc	4	Railyards Amtrack Office		B B	Window Wall	Ctr L Ctr	Lft casing	QM	Wood	Brown Whiie	Interior	Innovar, 2011
17 23 18 24	0.2	<u> </u>	Yes	4	'	Break Rm Break Rm	С	Baseboard	Clr		QM QM	Plaster	White	Interior Interior	Innovar, 2011
19 25	>9.9	mg/cm2 mg/cm2	Yes	4	· '	Break Rm	В	Wall	U Lft		QM	Plaster Plaster	White	Interior	Innovar, 2011 Innovar, 2011
20 26	>9.9		Yes	4	,		В	Wall	L Rgt			Plaster	White	Interior	Innovar, 2011
21 27	0.3	mg/cm2	163	1	Railyards Amtrack Office	Break Rm	ر ا	Wall	L Clr			Drywall	White	Interior	Innovar, 2011
22 28	0.2	mg/cm2		3	· '	Office	В	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
23 29	>9.9		Yes	10	Railyards Amtrack Office	Lobby	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
24 30	0.3	mg/cm2	_	10	Railyards Amtrack Office	•	D	Wall	L Ctr			Plaster	White	Interior	Innovar, 2011
25 31	0.3	mg/cm2	_	10	Railyards Amtrack Office	Lobby	A	Window	Ctr	Sash	QM	Wood	Brown	Interior	Innovar, 2011
26 32	>9.9		Yes		· · ·	Lobby	Α	Column	Ctr		QM	Plaster	White	Interior	Innovar, 2011
27 33	>9.9	<u> </u>	Yes		,	Lobby	Α	Column	Clr		QM	Plaster	White	Interior	Innovar, 2011
28 34	1.1	mg/cm2	Yes	12	Railyards Amtrack Office	Hallway	В	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
29 35	>9.9	mg/cm2	Yes	12	Railyards Amtrack Office	Hallway	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
30 36	0.1	mg/cm2		9	Railyards Amtrack Office	Wmns Rm	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
31 37	0.1	mg/cm2		9	Railyards Amtrack Office	WmnsRm	Α	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
32 38	0.3	mg/cm2		9	Railyards Amtrack Office	WmnsRm	В	Door	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
	0.2	mg/cm2	_	9	'	_	В	Floor			1	Cement		Interior	Innovar, 2011
34 40	-0.1	mg/cm2		11		Number Only	С	Stairs	Ctr	Treads		Steel	1	Interior	Innovar, 2011
35 41	0.1	mg/cm2	_	11		Number Only	С	Stairs	Ctr	Railing cap		Steel	Black	Interior	Innovar, 2011
36 42		mg/cm2		15	,	-	С	Wall	L Clr			Plaster		Interior	Innovar, 2011
	0.2	mg/cm2		15		Upstairs	В	Wall	L Ctr		1	Plaster	White	Interior	Innovar, 2011
38 44		mg/cm2	1		' · · · · · · · · · · · · · · · · · · ·	Upstairs	Α	Wall	L Ctr		1	Plaster	White	Interior	Innovar, 2011
	6.6	mg/cm2			·	Upstairs		Door	Ctr	U Ctr		Wood		Interior	Innovar, 2011
	0.3	mg/cm2	_	15		-	В	Wall	L Ctr			Plaster	White	Interior	Innovar, 2011
	0.3	mg/cm2	_	15	'	Upstairs	A	Wall	L Ctr		1	Plaster		Interior	Innovar, 2011
42 54	0.2	mg/cm2		16	· · · · · · · · · · · · · · · · · · ·	Museum	A	Floor				Cement	Gray	Interior	Innovar, 2011
		mg/cm2			· · ·	Museum	A	Floor			QM	Cement		Interior	Innovar, 2011
44 56	0.3	mg/cm2	_	16	, , , , , , , , , , , , , , , , , , ,	Museum	A	Floor	I Chi		QM	Cement	White	Interior	Innovar, 2011
	0.1	mg/cm2		16			D	Wall	L Ctr			Cement	Gray	Interior	Innovar, 2011
46 58	0.2	mg/cm2		16	Railyards Amtrack Office	Museum	В	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011

ID Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
47 59	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	Α	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011
48 60	6.3	mg/cm2	Yes	16	Railyards Amtrack Office	Museum	Α	Floor			QM	Cement	Yellow	Interior	Innovar, 2011
49 61	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	Α	Door	Ctr	U Ctr	QM	Steel	Green	Interior	Innovar, 2011
50 62	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	Α	Door	Ctr	U Ctr	QM	Steel	Black	Interior	Innovar, 2011
51 63	0.5	mg/cm2		16	Railyards Amtrack Office	Museum	Α	Door	Ctr	Lft casing	QM	Steel	Black	Interior	Innovar, 2011
52 64	0.7	mg/cm2		16	Railyards Amtrack Office	Museum	Α	Floor			QM	Cement	Red	Interior	Innovar, 2011
53 65	1.8	mg/cm2	Yes	1	Railyards Amtrack Office	Facility	В	Railing	Ctr	Railing	QM	Steel	Yellow	Exterior	Innovar, 2011
54 66	0.2	mg/cm2		1	Railyards Amtrack Office	Facility	В	Door	Ctr	U Ctr	QM	Steel	Red	Exterior	Innovar, 2011
55 67	-0.1	mg/cm2		1	Railyards Amtrack Office	Facility	D	Window	Ctr	Sill	QM	Wood	Black	Exterior	Innovar, 2011
56 68	0.2	mg/cm2		1	Railyards Amtrack Office	Facility	D	Window	Ctr	Sash	QM	Wood	Black	Exterior	Innovar, 2011
57 69	0	mg/cm2		1	Railyards Amtrack Office	Facility	С	Window	Rgt	Sill	QM	Wood	Black	Exterior	Innovar, 2011
58 7	5	mg/cm2	Yes	1	Main Machine Shop	Number Only	В	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
59 8	1.1	mg/cm2	Yes	1	Main Machine Shop	Number Only	С	Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
60 9	2.2	mg/cm2	Yes	1	Main Machine Shop	Number Only	С	Column	Clr		QM	Sleel	Silver	Interior	Innovar, 2011
61 10	0.1	mg/cm2		1	Main Machine Shop	Number Only	Α	Floor			QM	Ceramic	Red	Interior	Innovar, 2011
62 11	1.8	mg/cm2	Yes	1	Main Machine Shop	Number Only	В	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
63 12	0.7	mg/cm2		1	Main Machine Shop	Number Only	В	Stairs	Ctr	Treads	QM	Steel	Green	Interior	Innovar, 2011
64 13	1.9	mg/cm2	Yes	1	Main Machine Shop	Number Only	D	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
65 14	5.4	mg/cm2	Yes	1	Main Machine Shop	Number Only	D	Ceiling Beam	Beam	Ctr	QM	Steel	Silver	Interior	Innovar, 2011
66 15	4.2	mg/cm2	Yes	1	Main Machine Shop	Number Only	В	Column	Ctr		QM	Steel	Black	Exterior	Innovar, 2011
67 16	2.7	mg/cm2	Yes	1	Main Machine Shop	Number Only	В	Stairs	Ctr	Treads	QM	Wood	White	Interior	Innovar, 2011
68 1	3.4	<u> </u>	Yes		,	Number Only	В	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
69 2	0.1	mg/cm2			Boiler Shop	Number Only	Α	Floor			QM	Cement	Red	Interior	Innovar, 2011
70 3	3.2	<u> </u>	Yes		Boiler Shop	Number Only	С	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
71 4	2.5	mg/cm2	Yes		Boiler Shop	Number Only	Α	Column	Lft		QM	Steel	Silver	Interior	Innovar, 2011
72 5	-0.3	mg/cm2			Boiler Shop	Number Only	С	Door	Lft	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
73 1	1.1	mg/cm2			Blacksmith Shop	,	В	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
74 2	3.1	<u> </u>	Yes		Blacksmith Shop	Number Only	С	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
75 3	2.1	mg/cm2	Yes		Blacksmith Shop	Number Only	D	Wall	L Ctr		QM	Brick	Silver	Interior	Innovar, 2011
76 4	0.2	mg/cm2			Blacksmith Shop	Number Only		Door				Steel	1		Innovar, 2011
77 5	0.1	mg/cm2			Blacksmith Shop	Number Only		Window	Ctr	Part. Bead	QM	Steel	Silver	Interior	Innovar, 2011
	2.7	mg/cm2				Number Only		Bldg North of Firehouse	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
79 8	2.3	mg/cm2				Number Only		Window	Ctr	Lft casing	QM	Steel	Silver	Interior	Innovar, 2011
80 9	5.6	mg/cm2			-	Number Only		Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
81 10	1.1	mg/cm2	_		Bldg North of Firehouse	Number Only		Window	Ctr	Rgt casin	QM	Steel	Silver	Interior	Innovar, 2011
82 11	2.4	mg/cm2			•	Number Only		Frame	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
83 12	1.1	mg/cm2	res			Number Only		Wall	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
84 13	0.2	mg/cm2	Vas			Number Only	ν	Wall	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
85 1	1.1	mg/cm2	res			Number Only	А	Wall	L Ctr		QM	Cement	White	Interior	Innovar, 2011
86 2	0.1	mg/cm2			Bldg South of Firehouse	Number Only	V R	Wall	L Ctr	I ft cooks =	QM	Cement	White	Interior	Innovar, 2011
87 3	0	mg/cm2	Voc			Number Only	Α	Door Cnt	Ctr	Lft casing	QM	Cement	White	Interior	Innovar, 2011
88 4 89 5	1.1	mg/cm2			Bldg South of Firehouse	Number Only	A B	Column Wall	Ctr		QM	Cement	Green	Interior	Innovar, 2011
90 6	1.2	mg/cm2	res		-	rtamber om,	C		L Ctr	II C+r	QM	Cement	Green	Interior	Innovar, 2011
	0.5	mg/cm2	\vdash			Number Only		Door Interior Walls	Ctr	U Ctr	QM	Cement	Green	Interior	Innovar, 2011
91 13029.029-020513-01L	i e	ppm	\vdash		Blacksmith Shop			Interior Walls	NW Corner		<u> </u>	Paint	Silver		Rhoades, 2013
92 13029.029-020513-02L	410	ppm			Blacksmith Shop			Interior Walls	NE Corner	L		Paint	Silver		Rhoades, 2013

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
93	13029.029-020513-03L	100	ppm			Blacksmith Shop			Interior Walls	SW Corner			Paint	Silver		Rhoades, 2013
94	13029.029-020513-04L	150	ppm			Blacksmith Shop			Interior Walls	SE Corner			Paint	Silver		Rhoades, 2013
95	13029.029-020513-05L	2570	ppm			Blacksmith Shop			Overhead Piping				Paint	Red		Rhoades, 2013
96	13029.029-020513-06L	2640	ppm			Blacksmith Shop			Exterior Brick Walls		Trim		Paint	Rust		Rhoades, 2013
97	13029.029-020513-07L	4040	ppm			Blacksmith Shop			Interior Walls Office Shack				Paint	Cream		Rhoades, 2013
98	13029.029-020513-08L	250	ppm			Blacksmith Shop			Building	NW Corner			Surface Dust			Rhoades, 2013
99	13029.029-020513-09L	400	ppm			Blacksmith Shop			Building	NE Corner			Surface Dust			Rhoades, 2013
100	13029.029-020513-10L	100	ppm			Blacksmith Shop			Building	Center			Surface Dust			Rhoades, 2013
101	13029.029-020513-11L	710	ppm			Blacksmith Shop			Building	SW Corner			Surface Dust			Rhoades, 2013
102	13029.029-020513-12L	970	ppm			Blacksmith Shop			Building	SE Corner			Surface Dust			Rhoades, 2013

ID Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
1 577007-NB.NS.1	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%	,,,		Terracon, 2005
2 577007-NB.NS.2	· ·	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
3 577007-NB.NS.3		Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
4 577007-NB.SS.4		Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
5 577007-NB.SS.5	Sep-05	Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
6 577007-NB.SS.6	Sep-05	Green painted window pane	Boiler Shop, North Side	0%			Terracon, 2005
7 577007-NB.NS.7		Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
8 577007-NB.NS.8	Sep-05	Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
9 577707-NB.NS.9	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
10 577007 -NB.NS.10	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
11 577007-NB.NS.11	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
12 577007-SB.SS.F1.1	Sep-05	Silver glaze coating window pane	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
13 577007 -SB.SS.F1.2	Sep-05	Glaze coating on window pane (silverlblack)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
14 577007-SB.SS.F1.3	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
15 577007 -SB.SS.F1.4	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
16 577007 -SB.SS.F1.5	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
17 577007-SB.SS.F1.6	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
18 577007 -SB.SS.F1.7	Sep-05	Glaze coating on window pane (silver/green)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
19 577007-SB.SS.F2.1	Sep-05	Glaze coating on window pane (beige/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
20 577007-SB.SS.F2.2	Sep-05	Glaze coating on window pane (tanJbrown)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
21 577007-SB.SS.F2.3	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
22 577007-SB.SS.F2.4	Sep-05	Glaze coating on window pane (grey/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
23 577007-SB.SS.F2.5	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
24 577007-SB.SS.F2.6	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
25 577007-SB.SS.F2.7	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
26 577007-NB.SS.1	Sep-05	Window glazing (tan)	Boiler Shops, South Side	Trace <1%			Terracon, 2005
27 577007-NB.SS.2	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
28 577007-NB.SS.3	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
29 577007-NB.SS.01	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
30 577007-NB.SS.02	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
31 577007-NB.SS.03	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
32 577007 -NB.ES.01	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
33 577007-NB.ES.02	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
34 577007 -N.O.01	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
35 577007-N.O.02	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
36 577007-N.O.03	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
37 577007-N.O.G.01	Sep-05	White insulation	100 ft North of CWE Strorage Shed	NA			Terracon, 2005
38 577007-N.O.G.02	Sep-05	White insulation	100 ft North of CWE Strorage Shed	NA			Terracon, 2005
39 577007-N.O.G.03	Sep-05	White insulation	100 ft North of CWE Strorage Shed	NA			Terracon, 2005
40 577007 -NTE. WS-1	Sep-05	Transite pipe (grey)	Former Transformer Area, West Side		,	Friable	Terracon, 2005
41 577007 -NTE. WS-1		Transite pipe (grey)	Former Transformer Area, West Side		Crocidolite		Terracon, 2005
42 577007 -NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area			Friable	Terracon, 2005
43 577007 -NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area		Crocidolite		Terracon, 2005
44 577007-NTE.ES-1 (577007-NTE.NS-1??)		Transite pipe (grey)	Former Transformer Area		Chrysotile	Friable	Terracon, 2005
45 577007-NTE.ES-1 (577007-NTE.NS-1??)	Sep-05	Transite pipe (grey)	Former Transformer Area		Crocidolite		Terracon, 2005
46 577007-SWB.WW.01	Sep-05	Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%			Terracon, 2005
47 577007-SWB.WW.02		Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%	Chrysotile		Terracon, 2005
48 577007-FH.01	Sep-05	71	Fire House	0%			Terracon, 2005
49 577007-FH.02	Sep-05	**	Fire House	0%			Terracon, 2005
50 577007-FH.03	· ·	Insulation/plaster over brick	Fire House		Chrysotile	Friable	Terracon, 2005
51 577007-FH.04	Sep-05	71	Fire House		,	Friable	Terracon, 2005
52 01-DW1-1		off-white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
53 01-DW1-2		white drywall with brown paper (drywall)	Amtrack Office	none detected			Innovar, 2011
54 02-DW1-1	Aug-10	white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011

ID	Sample Number Da	te	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
55 03-DW1-1	Au	g-10 white su	urfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
56 04-P1-1	Au	g-10 white su	urfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
57 05-P1-1	Au	g-10 white su	urfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
58 06-P1-1	Au	g-10 white su	urfaced white compound (plaster)	Amtrack Office	none detected			Innovar, 2011
59 06-P1-2	Au	g-10 tan plast	ter (plaster)	Amtrack Office	none detected			Innovar, 2011
60 07-CB1-1	Au	g-10 pink cov	ver base (cover base)	Amtrack Office	none detected			Innovar, 2011
61 07-CB1-2	Au	g-10 tan mast	tic (cover base)	Amtrack Office	none detected			Innovar, 2011
62 07-CB1-3	Au	g-10 white su	urfaced white compound (cover base)	Amtrack Office	none detected			Innovar, 2011
63 07-CB1-4	Au	g-10 brown m	mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
64 07-CB1-5	Au	g-10 tan plast	ter (cover base)	Amtrack Office	none detected			Innovar, 2011
65 08-CB1-1	Au	g-10 pink cov	ver base (cover base)	Amtrack Office	none detected			Innovar, 2011
66 08-CB1-2	Au	g-10 tan mast	tic (cover base)	Amtrack Office	none detected			Innovar, 2011
67 08-CB1-3	Au	g-10 brown m	nastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
68 08-CB1-4	Au	g-10 tan plast	ter (cover base)	Amtrack Office	none detected			Innovar, 2011
69 09-CB1-1	Au	g-10 pink cov	ver base (cover base)	Amtrack Office	none detected			Innovar, 2011
70 09-CB1-2	Au	g-10 tan mast	tic (cover base)	Amtrack Office	none detected			Innovar, 2011
71 09-CB1-3	Au	g-10 brown m	mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
72 09-CB1-4		_	ter (cover base)	Amtrack Office	none detected			Innovar, 2011
73 10-CT1-1		• .		Amtrack Office	none detected			Innovar, 2011
74 10-CT1-2			ng (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
75 10-CT1-3	•			Amtrack Office	none detected			Innovar, 2011
76 11-CT1-1		•	urfacing (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
77 11-CT1-2		•	,	Amtrack Office	none detected			Innovar, 2011
78 11-CT1-3		_		Amtrack Office	none detected			Innovar, 2011
79 12-CT1-1		•	gn tile (no surfacing) (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
80 12-CT1-2	•			Amtrack Office	none detected			Innovar, 2011
81 13-WC1-1		0	, ,	Amtrack Office	none detected			Innovar, 2011
82 14-WC1-1		•	rfacing white caulking (Window Caulk)	Amtrack Office	none detected			Innovar, 2011
83 15-WC1-1		•		Museum	none detected			Innovar, 2011
84 16-CT2-1	•			Museum	none detected			Innovar, 2011
85 16-CT2-2		•	iling tile (ceiling tile)	Museum	none detected			Innovar, 2011
86 17-CT2-1				Museum	none detected			Innovar, 2011
87 17-CT2-2		-		Museum	none detected			Innovar, 2011
88 18-CT2-1		• .	urfacing (ceiling tile)	Museum	none detected			Innovar, 2011
89 18-CT2-2				Museum	none detected			Innovar, 2011
90 19-W1-1	•			Museum	none detected			Innovar, 2011
91 20-W1-1			oven covering (Wiring)	Museum	none detected			Innovar, 2011
92 13029.029-02				Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
93 13029.029-02			-	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
94 13029.029-02			ne Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
95 13029.029.02			Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
96 13029.029-02				Office Shack, Blacksmith Shop			Poor/Friable	Roades, 2013
97 13029.029-02			Plaster - Surface Coat	Office Shack, Blacksmith Shop			Poor/Friable	Roades, 2013
98 13029.029-02			Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected	,	Poor/Friable	Roades, 2013
99 13029.029-02				Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
100 13029.029-02			Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
101 13029.029-02		b-13 Window		Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
102 13029.029.02		b-13 Window	Ü	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
103 13029.029.02		b-13 Window		Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
104 13029.029-02		b-13 Window	-	Clear Glass, Blacksmith Shop			Poor/Friable	Roades, 2013
105 13029.029-02		b-13 Window	-	Clear Glass, Blacksmith Shop	none detected	,	Poor/Friable	Roades, 2013
106 13029.029-02		b-13 Window	-	Clear Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
107 13029.029-02		b-13 Window	-	Wood Panes, Blacksmith Shop			Poor/Friable	Roades, 2013
108 13029.029-02		b-13 Window	Ü	Wood Panes, Blacksmith Shop			Poor/Friable	Roades, 2013
100 13023.023-0	LUJ1J 17 FE	O TO MAILINOM	· Ciuzing	wood ranes, blacksmith shop	2/0	Citi yaotiiC	OUI/THUDIC	11000003, 2013

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
109 1	3029.029-020513-18	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
110 1	3029.029-020513-19	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
111 1	3029.029-020513-20	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
112 1	3029.029.020513-21	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
113 1	3029.029-020513-22	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
114 1	3029.029.020513-23	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
115 1	3029.029-020513-24	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
116 1	3029.029·020513-25	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
117 1	3029.029.020513-26		Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
118 1	3029.029-020513-27	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
119 1	3029.029-020513-28	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
120 1	3029.029-020513-29	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
121 1	3029.029-020513-30	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
122 1	3029.029-020513-31	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	8%	Chrysotile	Poor/Non-Friable	Roades, 2013
123 1	3029.029-020513-32	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
124 1	3029.029-020513-33	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
125 1	3029.029-020513-34	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
126 1	3029.029-020513-35	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
127 1	3029.029-020513-36	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
128 1	.3029.029-020513-34a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
129 1	.3029.029-020513-35a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
130 1	.3029.029-020513-36a		Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
131 1	3029.029-020513-37	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
132 1	3029.029-020513-38	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013
133 1	3029.029-020513-39	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013

Appendix D Lead Based Paint Laboratory Analysis



LABORATORY REPORT

Client: DC Environmental

PO Box 9315

Albuquerque, NM 87119

CEI Lab Code: C16-0818

Received: 11-14-16 **Analyzed:** 11-18-16

Reported: 11-18-16

Project: Rail Yard Parcel 2 Motor Car Garage; DCE 16

-177

ANALYSIS METHOD: EPA SW846 7000B

CLIENT ID	CEI LAB ID	PPM (µg/g)	CONCENTRATION % BY WEIGHT
16-167-1000	CA58069	8100	0.81

Reviewed By:

Tianbao Bai, Ph.D. Laboratory Director

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

* The analysis of composite wipe samples as a single samples is not included under AIHA accreditation.

Minimum reporting limit is 10 μ g total lead. Sample results denoted with a "less than" (<) sign contain less than 10.0 μ g total lead, based on a 40ml sample volume.

Lead samples are not analyzed by CEI Labs Lead samples are submitted to an AIHA ELLAP accredited laboratory for lead analysis of soil, dust, paint, and TCLP samples.

Laboratory results represent the analysis of samples as submitted by the client. Information regarding sample location, description, area, volume, etc., was provided by the client. Unless notified in writing to return samples, CEI Labs discards client samples after 30 days. This report shall not be reproduced, except in full, without the written consent of CEI Labs.

REGULATORY OSHA Standard: No safe limit.

LIMITS Consumer Products Safety Standard: Greater than 0.06% lead by weight.

Federal Lead Standard / HUD: 0.5% lead by weight.

LEGEND $\mu g = microgram$ ppm = parts per milliong = gramsml = milliliterPb = leadwt = weight

End of Report

C16-0818 (1) CA58069

			PO / Job#: DCE	16-177		Date: 1	0/26/2016			
DC Environmental			Turn Around Tim	e: Same	Day / 1Day /	2Day / 3I	Day / 4Day	5Day		
COLE Consulting and Training "Promoting S		Workninge"	□ PCM: □ NIOS	SH 7400A	/ 🗖 NIOSH	7400B	□ Rotomet	er		
	salety ili ule	workplace								
DC Environmental PO Box 9315			☐ PLM: ☐ Stand	dard / 🗖	Point Count 40	0 - 1000 /	CARB 4	35		
Albuquerque, NM 87119 Contact:										
J. David Charlesworth			☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402 ☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield							
Phone: 505.869.8000	Fax:	69.9453	☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight % ☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐ D5756(str/mass)							
E-mail:		09.9433	☐ IAQ Particle Id	lentification	on (PLM LAB)		J PLM Opac	ues/Soot		
JDCharlesworthcih@gmail.cor Site: City of Albuquerque (Inte			Particle Identification (TEM LAB) Description (TEM LAB) Special Project Metals Analysis: Method:							
			Matrix:							
Site Location: Rail Yard Parce	l 2 Motor Ca	r Garage	Analytes:			 				
Comments: 'Paint chips to be a	nalyzed for	Lead Based Paint			<u> </u>			-		
				T	FOR AIR SAN	/PLES ON	LY	Sample		
Sample ID	Date	Sample Location / Des	scription / Task	Туре	Time	Avg.	Total	Area / Air		
16-167-1000			<u> </u>	A	On/Off	LPM	Time	Volume		
10-107-1000	10/26	White floor stripe Bla	cksmith Shop	PC						
		<u></u>		A						
		_		C						
				P _C						
				Ap						
				С						
				PC						
				Α						
				P C						
				A						
				C						
				PC						
				Α						
				PC						
				PC						
Sampled By: Steven Gutierrez		· · · · · · · · · · · · · · · · · · ·			<u> </u>	<u>!</u>		l .		
Shipped Via: Fed Ex D	HL U	PS US Mail Cou	ier	□ Othe	r:					
Polinguished Dec Cases Cont.		Relinquished By:			Relinquished B	Ву:				
Relinquished By: Steven Gutierrez Date / Time: 11/11/2016 5:00PM	Date / Time:			Date / Time:						
Received By: AC	Received By:	Received By:								
Date / Time: 1(/14)10	9:10	Date / Time:								
Condition Acceptable? Yes	□ No	☐ Yes ☐ No Condition Acceptable? ☐ Yes ☐				No				

Appendix E Photograph Log



Figure 1: Exterior of Blacksmith Shop



Figure 2: Interior of Blacksmith Shop



Figure 3: Interior of Blacksmith Shop



Figure 4: Interior of Blacksmith Shop



Figure 5: Interior of Blacksmith Shop



Figure 6: Exterior of Blacksmith Shop

Appendix F Certificates

United States Emironmental Protection Agency Adrienne Priselac, Manager, Toxics Office has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as: This certification is valid from the date of issuance and expires September 25, 2017 Land Division This is to certify that In the Jurisdiction JAMED STAY Michael Neiman New Mexico Inspector September 11, 2014 NM-I-129246-1 Certification # lssued On

United States Environmental Protection Agency

This is to certify that



Steven P Gutierrez

received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has

Inspector

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires April 20, 2019

LBP-I-I159998-1

Certification #

April 06, 2016

Issued On



Adrienne Priselac, Manager, Toxics Office

Land Division

CERTIFICA O_F TRAINING

EPA/AHERA Training Program



STEVEN GUTIERREZ This is to certify that

NM. DL. 121 014 475

Has completed 4 hours of training and PASSED the test required by Section 206 of TSCA Title II and in accordance with LOUISIANA STATE ASBESTOS REGULATIONS entitled

ASBESTOS BUILDING INSPECTOR REFRESHER

Suite, 101 1005 Veterans Mem Blvd Mendez Environmental™

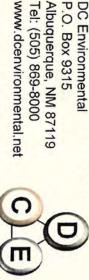


Josefina Mendez-Rosa

Course Date: 11-08-2016 Certificate Number: AS1116KNMPSG18544

DC Environmental IN COLLABORATION WITH

Albuquerque, NM 87119 Tel: (505) 869-8000 P.O. Box 9315



NM Program Manager: David (

David Charlesworth

Test Date: 11-08-2016 Grade: PASS

Expiration Date: 11-08-2017