

A Lennar Company

August 4, 2017

Ms. Karel Detterman Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

RECEIVED

By Alameda County Environmental Health 2:19 pm, Aug 07, 2017

SUBJECT:

ADDITIONAL SOIL-GAS SURVEY CERTIFICATION

County File # RO 3229

Lennar Multifamily Communities 1750 Webster Street, Oakland, CA

Dear Ms. Detterman:

You will find enclosed one copy of the following document prepared by GeoSolve, Inc. for the subject site:

• Additional Soil-Gas Survey dated May 31, 2017.

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

Should you have any questions, please do not hesitate to contact me at (415) 975-4991.

Sincerely:

Lennar Multifamily Communities

Tyler Wood

Development Director

0769.L1





Visit us at www.geosolve-inc.com

Project No. 2016-04 May 31, 2017

Mr. Tyler Wood Lennar Multifamily Communities 492 9th Street Suite 300 Oakland, California 94607

1)

Subject:

ADDITIONAL SOIL-GAS SURVEY

Parking Lot Parcels

1750 and 1810 Webster Streets and 301 19th Street

APNs 008-0625-016; 008-0625-017; 008-0625-018; and 008-0625-002-1

Oakland, California

VRAP Case No. RO0003229

SCP No. RO0002672

Reference:

Summary of Environmental Activities Report for 301 19th Street; and 1750 and 1810 Webster Street in Oakland, California

By GeoSolve, Inc. Dated June 19, 2017

Dear Mr. Wood:

At your request, *GeoSolve, Inc.* had conducted an Additional Soil-Gas Survey for the above referenced properties to assess the potential seasonal variability of soil vapor concentrations. The subject property for this Soil-Gas Survey includes 1750 Webster Street, 1810 Webster Street and 301 19th Street in Oakland, California. The subject site consists of four parcels bounded by Webster Street to the north, 19th Street to the east and Harrison Street to the south with Assessor Parcel Numbers (APNs) 008-0625-016; 008-0625-017; 008-0625-018; and 008-0625-002-1. The subject site is vacant and used as parking lots.

Background

Based on review of our Summary of Environmental Activities Report (Reference 1), elevated concentrations of total petroleum hydrocarbons reported as gasoline (TPHg) and benzene were detected in groundwater up to 200,000 micrograms per liter (μ g/L) and 14,000 μ g/L on the southern portion of the property along Webster Street. Based on the findings in Reference 1, the elevated concentrations of TPHg, benzene, toluene, ethyl benzene, and total xylenes (BTEX)

appear to have originated from 1721 Webster Street, which is situated approximately 300 feet northwest of the subject property and immediately up-gradient.

In November 2015, *GeoSolve, Inc.* advanced one boring on 1750 Webster Street and two borings on 301 19th Street to evaluate the concentrations of petroleum hydrocarbons in subsurface soil and groundwater in our Phase II ESA (Reference 2). Based on the laboratory analytical results of soil samples, concentrations of TPHg, BTEX, or MTBE were not detected in all vadose zone soil samples analyzed from borings B-1 through B-3 as shown on Table 1. Total xylenes were detected in soil sample B1-25 at 0.016 mg/Kg, which was collected below the water table and reflects dissolved concentrations measured in that boring.

Lead was detected at 170 mg/Kg in soil sample B1-5, which exceeded the residential ESL of 80 mg/Kg and lead was detected below the residential ESL in all other soil samples analyzed from borings B-1 through B-3.

TPHg, BTEX, MTBE and lead were not detected in groundwater samples collected from borings B-2 or B-3. MTBE was not detected in groundwater sample B-1. Lead was detected up to 0.54 micrograms per liter (μ g/L) in groundwater sample B-1. An elevated concentration of TPHg was detected at 26,000 μ g/L, which exceed the residential ESL of 500 μ g/L in groundwater sample B-1. Benzene, toluene, ethyl benzene and total xylenes exceeded residential ESLs of 27 μ g/L, 130 μ g/L and 100 μ g/L, respectively.

On February 2, 2016, an additional Phase II ESA was conducted at 1810 Webster Street in Oakland (Reference 3), which included drilling and sampling soil and groundwater from borings B-1 through B-3. TPHg was detected up to 600 mg/Kg in soil at 22.5 feet bgs, which represented capillary-fringe zone conditions, and up to 14,000 μ g/L in groundwater. Lead was detected up to 130 mg/Kg at 1 foot bgs in sample B2-1.

On February 3 and 4, 2016, *GeoSolve, Inc.* conducted a soil-gas survey to evaluate if elevated concentrations of TPHg, BTEX and/or volatile organic compounds (VOCs) vaporized from the groundwater and intruded into the shallow soil-gas beneath the site. The laboratory analytical results obtained from the TEG Mobile Laboratory indicated mostly no detectable concentrations of TPHg, BTEX or VOCs. However, a moderate concentration of benzene was detected at 120 micrograms per cubic meter (μ g/m³) at 5 feet below ground surface (bgs) and Tetrachloroethylene (PCE) was detected at 150 μ g/m³ in soil-gas samples SG5-5 at SG5-10.

Based on the work summarized above in References 2 through 4, groundwater and capillary-fringe zone soil (saturated soil) along the northern portions of 1750 and 1810 Webster Street were impacted by dissolved-phase gasoline hydrocarbons, which originated from the up-gradient and former leaking gasoline underground storage tanks (USTs) at 1721 Webster Street in Oakland, California. No significant impact was detected in soil and/or groundwater at 301 19th Street from the up-gradient 1721 Webster Street property was reported.

At the request of the Alameda County Health Care Services Agency (ACHCSA), the purpose of conducting this Additional Soil-Gas Survey was to evaluate vinyl chloride at the bottom of the proposed elevator shafts and determine the oxygen, methane and carbon dioxide concentrations

along Webster Street and on the western portion of the site associated with the groundwater petroleum-hydrocarbon and chlorinated-hydrocarbon plumes.

ADDITIONAL SOIL-GAS SURVEY

Prior to commencement of fieldwork, *GeoSolve, Inc.* visited the subject property, marked four locations with white paint, and contacted underground service alert (USA) 48-hours before drilling activities. In addition, a Site-Specific Health and Safety Plan was prepared for the project, and was kept on site during fieldwork activities.

Fieldwork

Once USA was notified and the underground utilities were marked, a *GeoSolve, Inc.* field geologist observed Penecore Drilling, Inc., a State-licensed drilling contractor (C57-706568) of Woodland, California, advance four borings (SG-7 through SG-10) to approximately 5 feet below ground surface (bgs) on May 13, 2017, while boring SG-10 was advanced to 6 feet bgs within the proposed elevator shaft maximum depth. The locations of the temporary soil-gas probes are shown on Figure 1. Soil-gas probes SG-7 through SG-10 were allowed to set for two-days prior to sampling in accordance with the DTSC Soil-Gas Advisory (2012). No soil samples were collected from the borings to ensure soil-gas was minimally disturbed.

Installation of the temporary soil-gas probes was conducted as follows:

- Approximately 6-inches of Monterey #3 sand was placed on the bottom of each borehole at 5 feet bgs in SG-7 through SG-9 and 6 feet bgs in SG-10;
- A down-hole rod was used to center a permeable vapor tip connected to 0.25-inch diameter Nylaflow tubing on the top of the sand, and an additional 6 inches of Monterey #3 sand was placed over the vapor-tip.
- A 12-inch layer of dry granular bentonite was placed on top of the Monterey #3 sand, and a 3-foot layer of hydrated bentonite was placed within SG-7 through SG-9, while a 4-foot layer of hydrated bentonite was placed in SG-10.

Once soil-gas samples were collected, the Nyflow tubing was removed and the borings backfilled with bentonite to approximately 1-foot bgs, followed by one foot of neat cement to grade.

Laboratory Methods and Analytical Results

On May 15, 2017, two days after installation of the temporary vapor-probes on May 13, 2017, a GeoSolve, Inc. field geologist using McCampbell Analytical, Inc. supplied negative (-) 30 inches



of mercury vacuum 4-liter purge Summa canisters, purged three tube volumes in soil-gas probes SG-7 through SG-10 and using McCampbell Analytical, Inc. supplied 1-liter Summa -30 inches of mercury vacuum canisters, soil-gas was collected until the pressure gauges indicated -5 inches of mercury vacuum. Prior to collection of the samples, a shut-in test was conducted and alcohol wipes were used under a cover to check for leaks within in sampling manifolds. Soil-gas samples SG-7 through SG-10 were immediately submitted to McCampbell Analytical, Inc., a Statecertified hazardous waste sampling laboratory (Certification No. 1644) in Pittsburg, California, for analysis.

Soil-gas samples SG-7, SG-8, SG-9, and SG-10 analyzed for total oxygen, total methane and total carbon dioxide in percent (%) using analytical Method ASTM D 1946-90 and for volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) Methods TO-15.

A summary of laboratory analyses is shown on Table 1, Laboratory Analytical Results of Soil-Gas Samples and a copy of the McCampbell Analytical, Inc. Laboratory Analytical Report and Chain-of-Custody Documents are attached to Appendix A.

TABLE 1
LABORATORY ANALYTICAL RESULTS OF ADDITIONAL SOIL-GAS SAMPLES
1750 Webster Streets and 301 19th Street
Oakland, California
May 15, 2017

Sample ID	Sample Depth (feet)	IPA (μg/m³)	Oxygen (%)	Methane (%)	Carbon Dioxide (%)	Vinyl Chloride (μg/m³)
SG-7	5	<50	17	< 0.00020	0.036	<1.3
SG-8	5	<50	17	< 0.00020	0.039	<1.3
SG-9	5	<50	16	< 0.00020	0.037	<1.3
SG-10	6	<50	16	< 0.00020	0.038	<1.3

 $\mu g/m^3 = \text{micrograms per cubic meter.}$

IPA = isopropyl alcohol.

Conclusions

Based on the field and laboratory analytical results discussed in this Additional Soil-Gas Survey Letter Report, *GeoSolve, Inc.* concludes the following:

• No detectable concentrations vinyl chloride was not detected and other VOCs were not detected or detected below Environmental Screening Levels in soil-gas samples SG-7 through SG-10 collected from the northern, western and southern portions of the property.



- Methane was not detected in any soil-gas sample collected and carbon dioxide levels ranged from 0.036% to 0.039% while oxygen concentrations ranged from 16% to 17% in all soil-gas samples analyzed from SG-7 through SG-10.
- Based on these results, no adverse effects from the groundwater petroleum-hydrocarbon or chlorinated-hydrocarbon plumes beneath the site has impacted the shallow soil-gas.

Recommendations

Based on the consistency of soil vapor measurements and the conclusions presented in this Additional Soil-Gas Letter Report, *GeoSolve, Inc.* does not recommend further environmental sampling for soil-gas at the subject site.

If you have any questions or need further information regarding this Additional Soil-Gas Survey Letter Report, please call us at (925) 963-1198.

Sincerely,

GeoSolve, Inc.

Robert D. Campbell, M.S., P.G., C.E.G., Q.S.D.

Principal Engineering Geologist

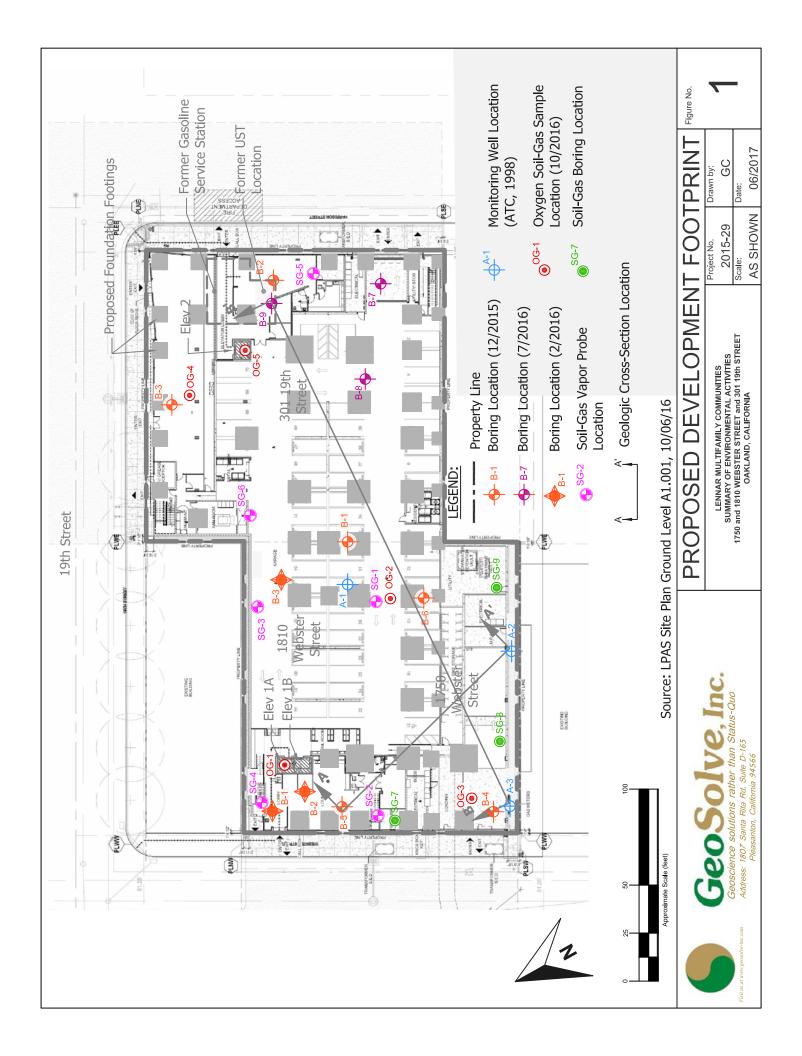
Attachments: Figure 1, Site Vicinity Map

Figure 2, Site Plan

Appendix A - McCampbell Analytical, Inc. Laboratory Analytical Report and

Chain-of-Custody Document





APPENDIX A

McCAMPBELL ANALYTICAL INC. LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTS





McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1705682

Report Created for: Geosolve, Inc.

1807 Santa Rita Road, Suite D-165

Pleasanton, CA 94566

Project Contact: Rob Campbell

Project P.O.: 2015-29

Project Name: 2015-29; 19th and Harrison

Project Received: 05/15/2017

Analytical Report reviewed & approved for release on 05/18/2017 by:

Angela Rydelius,

Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com

CA ELAP 1644 ♦ NELAP 4033ORELAP

Glossary of Terms & Qualifier Definitions

Client: Geosolve, Inc.

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Glossary Abbreviation

%D Serial Dilution Percent Difference

95% Interval 95% Confident Interval

DF Dilution Factor

DI WET (DISTLC) Waste Extraction Test using DI water

DISS Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)

DLT Dilution Test (Serial Dilution)

DUP Duplicate

EDL Estimated Detection Limit

ERS External reference sample. Second source calibration verification.

ITEF International Toxicity Equivalence Factor

LCS Laboratory Control Sample

MB Method Blank

MB % Rec % Recovery of Surrogate in Method Blank, if applicable

MDL Method Detection Limit

ML Minimum Level of Quantitation

MS Matrix Spike

MSD Matrix Spike Duplicate

N/A Not Applicable

ND Not detected at or above the indicated MDL or RL

NR Data Not Reported due to matrix interference or insufficient sample amount.

PDS Post Digestion Spike

PDSD Post Digestion Spike Duplicate

PF Prep Factor

RD Relative Difference

RL Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)

RPD Relative Percent Deviation
RRT Relative Retention Time

SPK Val Spike Value

SPKRef Val Spike Reference Value

SPLP Synthetic Precipitation Leachate Procedure

ST Sorbent Tube

TCLP Toxicity Characteristic Leachate Procedure

TEQ Toxicity Equivalents

WET (STLC) Waste Extraction Test (Soluble Threshold Limit Concentration)

Quality Control Qualifiers

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.

Case Narrative

Client: Geosolve, Inc. Work Order: 1705682

Project: 2015-29; 19th and Harrison May 17, 2017

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.

Analytical Report

Client: Geosolve, Inc. WorkOrder: 1705682

 Date Received:
 5/15/17 17:00
 Extraction Method:
 ASTM D 1946-90

 Date Prepared:
 5/16/17
 Analytical Method:
 ASTM D 1946-90

Project: 2015-29; 19th and Harrison Unit: 9

Atmospheric Gases								
Client ID	Lab ID	Matrix	Date Collected	Instrur	nent	Batch ID		
SG-7	1705682-001A	SoilGas	05/15/2017 13:40	GC26		139075		
Initial Pressure (psia)	Final Pressur	Final Pressure (psia)				Analyst(s)		
14.66	29.33					AK		
<u>Analytes</u>		Result		<u>RL</u>	<u>DF</u>	Date Analyzed		
Oxygen		17		0.40	1	05/16/2017 15:33		

SG-8	1705682-002A SoilGas	05/15/2017 13:50	GC26		139075
Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)			
14.08	28.13	AK			
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Oxygen	17		0.40	1	05/16/2017 15:54

SG-9	1705682-003A SoilGas	05/15/2017 14:00 GC26	139075		
Initial Pressure (psia)	Final Pressure (psia)	Final Pressure (psia)			
14.73	29.36	29.36			
<u>Analytes</u>	<u>Result</u>	<u>RL</u> <u>DF</u>	Date Analyzed		
Oxygen	16	0.40 1	05/16/2017 16:15		

Analytical Report

Client: Geosolve, Inc. WorkOrder: 1705682

Date Received:5/15/17 17:00Extraction Method:ASTM D 1946-90Date Prepared:5/16/17Analytical Method:ASTM D 1946-90

Project: 2015-29; 19th and Harrison Unit: 9

Atmospheric Gases								
Client ID	Lab ID	Matrix	Date Collected	Instrur	nent	Batch ID		
SG-10	1705682-004A	SoilGas	05/15/2017 14:20	GC26		139075		
Initial Pressure (psia)	Final Pressure	e (psia)				Analyst(s)		
12.59	25.10					AK		
Analytes		<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed		
Oxygen		16		0.40	1	05/16/2017 16:36		



Client: Geosolve, Inc. WorkOrder: 1705682

 Date Received:
 5/15/17 17:00
 Extraction Method:
 ASTM D 1946-90

 Date Prepared:
 5/16/17
 Analytical Method:
 ASTM D 1946-90

Project: 2015-29; 19th and Harrison Unit: 9

		Light Gas	ses				
Client ID	Lab ID	Lab ID Matrix Date Collected Instrument					
SG-7	1705682-001A	SoilGas	05/15/2017 13:40	GC26		139074	
Initial Pressure (psia)	Final Pressur	Final Pressure (psia)					
14.66	29.33					AK	
<u>Analytes</u>		Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
Carbon Dioxide		0.036		0.0040	1	05/16/2017 11:25	
Methane		ND		0.00020	1	05/16/2017 11:25	

SG-8	1705682-002A SoilGas	05/15/2017 13:50 GC26		139074		
Initial Pressure (psia)	Final Pressure (psia)	Final Pressure (psia)				
14.08	28.13			AK		
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed		
Carbon Dioxide	0.039	0.0040	1	05/16/2017 11:46		
Methane	ND	0.00020	1	05/16/2017 11:46		

SG-9	1705682-003A SoilGas	05/15/2017 14:00 GC26		139074
Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)		
14.73	29.36			AK
Analytes	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
Carbon Dioxide	0.037	0.0040	1	05/16/2017 12:07
Methane	ND	0.00020	1	05/16/2017 12:07

Analytical Report

Client: Geosolve, Inc. WorkOrder: 1705682

Date Received:5/15/17 17:00Extraction Method:ASTM D 1946-90Date Prepared:5/16/17Analytical Method:ASTM D 1946-90

Project: 2015-29; 19th and Harrison Unit:

		Light Gas	ses			
Client ID	Lab ID	Matrix	Date Collected	Instrum	ent	Batch ID
SG-10	1705682-004A	SoilGas	05/15/2017 14:20	GC26		139074
Initial Pressure (psia)	Final Pressur	e (psia)				Analyst(s)
12.59	25.10					AK
<u>Analytes</u>		Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Carbon Dioxide		0.038		0.0040	1	05/16/2017 12:29
Methane		ND		0.00020	1	05/16/2017 12:29



Client: Geosolve, Inc. **Date Received:** 5/15/17 17:00 **Date Prepared:** 5/17/17

Project: 2015-29; 19th and Harrison WorkOrder: 1705682 **Extraction Method: TO15 Analytical Method: TO15**

 $\mu g/m^3$

Unit:

Leak Check Compound Client ID Lab ID Matrix **Date Collected Instrument Batch ID** SG-7 1705682-001A **SoilGas** 05/15/2017 13:40 GC43 139079 Initial Pressure (psia) Final Pressure (psia) Analyst(s) 14.66 29.33 ΑK <u>DF</u> **Analytes** Result RL **Date Analyzed** ND Isopropyl Alcohol 50 1 05/17/2017 09:34 Surrogates **REC (%) Limits** 1,2-DCA-d4 97 70-130 05/17/2017 09:34 SG-8 **SoilGas** 05/15/2017 13:50 GC43 139079 1705682-002A Initial Pressure (psia) Final Pressure (psia) Analyst(s) 14.08 28.13 ΑK Result RL DF **Date Analyzed Analytes** ND 50 Isopropyl Alcohol 1 05/17/2017 10:17 Surrogates **REC (%) Limits** 1,2-DCA-d4 70-130 05/17/2017 10:17 96 SG-9 1705682-003A **SoilGas** 05/15/2017 14:00 GC43 139079 Initial Pressure (psia) Final Pressure (psia) Analyst(s) 14.73 29.36 AK Result RL <u>DF</u> **Analytes Date Analyzed** Isopropyl Alcohol ND 50 1 05/17/2017 22:24 Surrogates **REC (%) Limits** 1,2-DCA-d4 96 70-130 05/17/2017 22:24



Analytical Report

 Client:
 Geosolve, Inc.

 Date Received:
 5/15/17 17:00

 Date Prepared:
 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682 Extraction Method: TO15

Analytical Method: TO15 **Unit:** $\mu g/m^3$

Leak Check Compound								
Client ID	Lab ID	Matrix	Date Collected	Instrur	nent	Batch ID		
SG-10	1705682-004A	SoilGas	05/15/2017 14:20	GC43		139079		
Initial Pressure (psia)	Final Pressur	e (psia)				Analyst(s)		
12.59	25.10					AK		
<u>Analytes</u>		<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed		
Isopropyl Alcohol		ND		50	1	05/17/2017 08:51		
Surrogates		REC (%)		<u>Limits</u>				
1,2-DCA-d4		97		70-130		05/17/2017 08:51		



 Client:
 Geosolve, Inc.

 Date Received:
 5/15/17 17:00

 Date Prepared:
 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

Volatile	0	rganic	Con	npounds
Vulatific	v	'i gaint		upounus

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-7	1705682-001A	SoilGas	05/15/2017 13:40 GC43	139079
SG-7	1705682-001A	SoilGas	05/15/2017 13:40 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
14.66	29.33			AK
<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND	60	1	05/17/2017 09:34
Acrolein	ND	5.8	1	05/17/2017 09:34
Acrylonitrile	ND	1.1	1	05/17/2017 09:34
tert-Amyl methyl ether (TAME)	ND	2.1	1	05/17/2017 09:34
Benzene	ND	1.6	1	05/17/2017 09:34
Benzyl chloride	ND	2.6	1	05/17/2017 09:34
Bromodichloromethane	ND	3.5	1	05/17/2017 09:34
Bromoform	ND	5.2	1	05/17/2017 09:34
Bromomethane	ND	2.0	1	05/17/2017 09:34
1,3-Butadiene	ND	1.1	1	05/17/2017 09:34
2-Butanone (MEK)	ND	75	1	05/17/2017 09:34
t-Butyl alcohol (TBA)	ND	31	1	05/17/2017 09:34
Carbon Disulfide	ND	1.6	1	05/17/2017 09:34
Carbon Tetrachloride	ND	3.2	1	05/17/2017 09:34
Chlorobenzene	ND	2.4	1	05/17/2017 09:34
Chloroethane	ND	1.3	1	05/17/2017 09:34
Chloroform	ND	2.4	1	05/17/2017 09:34
Chloromethane	ND	1.0	1	05/17/2017 09:34
Cyclohexane	ND	18	1	05/17/2017 09:34
Dibromochloromethane	ND	4.4	1	05/17/2017 09:34
1,2-Dibromo-3-chloropropane	ND	0.12	1	05/17/2017 09:34
1,2-Dibromoethane (EDB)	ND	3.9	1	05/17/2017 09:34
1,2-Dichlorobenzene	ND	3.0	1	05/17/2017 09:34
1,3-Dichlorobenzene	ND	3.0	1	05/17/2017 09:34
1,4-Dichlorobenzene	ND	3.0	1	05/17/2017 09:34
Dichlorodifluoromethane	2.6	2.5	1	05/17/2017 09:34
1,1-Dichloroethane	ND	2.0	1	05/17/2017 09:34
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	05/17/2017 09:34
1,1-Dichloroethene	ND	2.0	1	05/17/2017 09:34
cis-1,2-Dichloroethene	ND	2.0	1	05/17/2017 09:34
trans-1,2-Dichloroethene	ND	2.0	1	05/17/2017 09:34
1,2-Dichloropropane	ND	2.4	1	05/17/2017 09:34
cis-1,3-Dichloropropene	ND	2.3	1	05/17/2017 09:34



Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

T 7 1 4 • 1				
Volatile	•	Irganic	•	compounds
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			*	
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-7	1705682-001A	SoilGas	05/15/2017 13:40 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
14.66	29.33			AK
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	05/17/2017 09:34
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	05/17/2017 09:34
Diisopropyl ether (DIPE)	ND	2.1	1	05/17/2017 09:34
1,4-Dioxane	ND	1.8	1	05/17/2017 09:34
Ethanol	ND	96	1	05/17/2017 09:34
Ethyl acetate	ND	1.8	1	05/17/2017 09:34
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	05/17/2017 09:34
Ethylbenzene	ND	2.2	1	05/17/2017 09:34
4-Ethyltoluene	ND	2.5	1	05/17/2017 09:34
Freon 113	ND	3.9	1	05/17/2017 09:34
Heptane	ND	21	1	05/17/2017 09:34
Hexachlorobutadiene	ND	5.4	1	05/17/2017 09:34
Hexane	ND	18	1	05/17/2017 09:34
2-Hexanone	ND	2.1	1	05/17/2017 09:34
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	05/17/2017 09:34
Methyl-t-butyl ether (MTBE)	ND	1.8	1	05/17/2017 09:34
Methylene chloride	ND	8.8	1	05/17/2017 09:34
Methyl methacrylate	ND	2.1	1	05/17/2017 09:34
Naphthalene	ND	5.3	1	05/17/2017 09:34
Propene	ND	88	1	05/17/2017 09:34
Styrene	ND	2.2	1	05/17/2017 09:34
1,1,1,2-Tetrachloroethane	ND	3.5	1	05/17/2017 09:34
1,1,2,2-Tetrachloroethane	ND	3.5	1	05/17/2017 09:34
Tetrachloroethene	ND	3.4	1	05/17/2017 09:34
Tetrahydrofuran	ND	3.0	1	05/17/2017 09:34
Toluene	ND	1.9	1	05/17/2017 09:34
1,2,4-Trichlorobenzene	ND	3.8	1	05/17/2017 09:34
1,1,1-Trichloroethane	ND	2.8	1	05/17/2017 09:34
1,1,2-Trichloroethane	ND	2.8	1	05/17/2017 09:34
Trichloroethene	ND	2.8	1	05/17/2017 09:34
Trichlorofluoromethane	ND	2.8	1	05/17/2017 09:34
1,2,4-Trimethylbenzene	ND	2.5	1	05/17/2017 09:34
1,3,5-Trimethylbenzene	ND	2.5	1	05/17/2017 09:34

1705682

Analytical Report

Client: Geosolve, Inc. WorkOrder: **Date Received:** 5/15/17 17:00 **Extraction Method:** TO15 **Date Prepared:** 5/17/17 **Analytical Method:** TO15

Unit: Project: 2015-29; 19th and Harrison $\mu g/m^3$

Volatile Organic Compounds						
Client ID	Lab ID	Matrix	Date Collected	Instru	ment	Batch ID
SG-7	1705682-001A	SoilGas	05/15/2017 13:40	GC43		139079
Initial Pressure (psia)	Final Pressure	e (psia)				Analyst(s)
14.66	29.33					AK
<u>Analytes</u>		Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Vinyl Acetate		ND		18	1	05/17/2017 09:34
Vinyl Chloride		ND		1.3	1	05/17/2017 09:34
Xylenes, Total		ND		6.6	1	05/17/2017 09:34
Surrogates		REC (%)		<u>Limits</u>		
1,2-DCA-d4		97		70-130		05/17/2017 09:34
Toluene-d8		97		70-130		05/17/2017 09:34
4-BFB		103		70-130		05/17/2017 09:34



Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

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Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-8	1705682-002A	SoilGas	05/15/2017 13:50 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
14.08	28.13			AK
<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND	60	1	05/17/2017 10:17
Acrolein	ND	5.8	1	05/17/2017 10:17
Acrylonitrile	ND	1.1	1	05/17/2017 10:17
tert-Amyl methyl ether (TAME)	ND	2.1	1	05/17/2017 10:17
Benzene	ND	1.6	1	05/17/2017 10:17
Benzyl chloride	ND	2.6	1	05/17/2017 10:17
Bromodichloromethane	ND	3.5	1	05/17/2017 10:17
Bromoform	ND	5.2	1	05/17/2017 10:17
Bromomethane	ND	2.0	1	05/17/2017 10:17
1,3-Butadiene	ND	1.1	1	05/17/2017 10:17
2-Butanone (MEK)	ND	75	1	05/17/2017 10:17
t-Butyl alcohol (TBA)	ND	31	1	05/17/2017 10:17
Carbon Disulfide	ND	1.6	1	05/17/2017 10:17
Carbon Tetrachloride	ND	3.2	1	05/17/2017 10:17
Chlorobenzene	ND	2.4	1	05/17/2017 10:17
Chloroethane	ND	1.3	1	05/17/2017 10:17
Chloroform	ND	2.4	1	05/17/2017 10:17
Chloromethane	ND	1.0	1	05/17/2017 10:17
Cyclohexane	ND	18	1	05/17/2017 10:17
Dibromochloromethane	ND	4.4	1	05/17/2017 10:17
1,2-Dibromo-3-chloropropane	ND	0.12	1	05/17/2017 10:17
1,2-Dibromoethane (EDB)	ND	3.9	1	05/17/2017 10:17
1,2-Dichlorobenzene	ND	3.0	1	05/17/2017 10:17
1,3-Dichlorobenzene	5.9	3.0	1	05/17/2017 10:17
1,4-Dichlorobenzene	5.4	3.0	1	05/17/2017 10:17
Dichlorodifluoromethane	2.6	2.5	1	05/17/2017 10:17
1,1-Dichloroethane	ND	2.0	1	05/17/2017 10:17
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	05/17/2017 10:17
1,1-Dichloroethene	ND	2.0	1	05/17/2017 10:17
cis-1,2-Dichloroethene	ND	2.0	1	05/17/2017 10:17
trans-1,2-Dichloroethene	ND	2.0	1	05/17/2017 10:17
1,2-Dichloropropane	ND	2.4	1	05/17/2017 10:17
cis-1,3-Dichloropropene	ND	2.3	1	05/17/2017 10:17



Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

Volatile Organic Comp

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Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-8	1705682-002A	SoilGas	05/15/2017 13:50 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
14.08	28.13			AK
<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	05/17/2017 10:17
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	05/17/2017 10:17
Diisopropyl ether (DIPE)	ND	2.1	1	05/17/2017 10:17
1,4-Dioxane	ND	1.8	1	05/17/2017 10:17
Ethanol	ND	96	1	05/17/2017 10:17
Ethyl acetate	ND	1.8	1	05/17/2017 10:17
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	05/17/2017 10:17
Ethylbenzene	37	2.2	1	05/17/2017 10:17
4-Ethyltoluene	ND	2.5	1	05/17/2017 10:17
Freon 113	ND	3.9	1	05/17/2017 10:17
Heptane	ND	21	1	05/17/2017 10:17
Hexachlorobutadiene	ND	5.4	1	05/17/2017 10:17
Hexane	ND	18	1	05/17/2017 10:17
2-Hexanone	ND	2.1	1	05/17/2017 10:17
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	05/17/2017 10:17
Methyl-t-butyl ether (MTBE)	ND	1.8	1	05/17/2017 10:17
Methylene chloride	ND	8.8	1	05/17/2017 10:17
Methyl methacrylate	ND	2.1	1	05/17/2017 10:17
Naphthalene	ND	5.3	1	05/17/2017 10:17
Propene	ND	88	1	05/17/2017 10:17
Styrene	ND	2.2	1	05/17/2017 10:17
1,1,1,2-Tetrachloroethane	ND	3.5	1	05/17/2017 10:17
1,1,2,2-Tetrachloroethane	ND	3.5	1	05/17/2017 10:17
Tetrachloroethene	ND	3.4	1	05/17/2017 10:17
Tetrahydrofuran	ND	3.0	1	05/17/2017 10:17
Toluene	ND	1.9	1	05/17/2017 10:17
1,2,4-Trichlorobenzene	ND	3.8	1	05/17/2017 10:17
1,1,1-Trichloroethane	ND	2.8	1	05/17/2017 10:17
1,1,2-Trichloroethane	ND	2.8	1	05/17/2017 10:17
Trichloroethene	ND	2.8	1	05/17/2017 10:17
Trichlorofluoromethane	ND	2.8	1	05/17/2017 10:17
1,2,4-Trimethylbenzene	ND	2.5	1	05/17/2017 10:17
1,3,5-Trimethylbenzene	ND	2.5	1	05/17/2017 10:17

Analytical Report

Client:Geosolve, Inc.WorkOrder:1705682Date Received: $5/15/17\ 17:00$ Extraction Method:TO15Date Prepared:5/17/17Analytical Method:TO15Project:2015-29; 19th and HarrisonUnit: $\mu g/m^3$

Volatile Organic Compounds							
Client ID	Lab ID	Matrix	Date Collected	Instru	ment	Batch ID	
SG-8	1705682-002A	SoilGas	05/15/2017 13:50	GC43		139079	
Initial Pressure (psia)	Final Pressure	e (psia)				Analyst(s)	
14.08	28.13					AK	
<u>Analytes</u>		Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
Vinyl Acetate		ND		18	1	05/17/2017 10:17	
Vinyl Chloride		ND		1.3	1	05/17/2017 10:17	
Xylenes, Total		160		6.6	1	05/17/2017 10:17	
<u>Surrogates</u>		REC (%)		<u>Limits</u>			
1,2-DCA-d4		96		70-130		05/17/2017 10:17	
Toluene-d8		97		70-130		05/17/2017 10:17	
4-BFB		105		70-130		05/17/2017 10:17	



Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

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Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-9	1705682-003A	SoilGas	05/15/2017 14:00 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
14.73	29.36			AK
<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND	60	1	05/17/2017 22:24
Acrolein	ND	5.8	1	05/17/2017 22:24
Acrylonitrile	ND	1.1	1	05/17/2017 22:24
tert-Amyl methyl ether (TAME)	ND	2.1	1	05/17/2017 22:24
Benzene	ND	1.6	1	05/17/2017 22:24
Benzyl chloride	ND	2.6	1	05/17/2017 22:24
Bromodichloromethane	ND	3.5	1	05/17/2017 22:24
Bromoform	ND	5.2	1	05/17/2017 22:24
Bromomethane	ND	2.0	1	05/17/2017 22:24
1,3-Butadiene	ND	1.1	1	05/17/2017 22:24
2-Butanone (MEK)	ND	75	1	05/17/2017 22:24
t-Butyl alcohol (TBA)	ND	31	1	05/17/2017 22:24
Carbon Disulfide	ND	1.6	1	05/17/2017 22:24
Carbon Tetrachloride	ND	3.2	1	05/17/2017 22:24
Chlorobenzene	ND	2.4	1	05/17/2017 22:24
Chloroethane	ND	1.3	1	05/17/2017 22:24
Chloroform	ND	2.4	1	05/17/2017 22:24
Chloromethane	1.2	1.0	1	05/17/2017 22:24
Cyclohexane	ND	18	1	05/17/2017 22:24
Dibromochloromethane	ND	4.4	1	05/17/2017 22:24
1,2-Dibromo-3-chloropropane	ND	0.12	1	05/17/2017 22:24
1,2-Dibromoethane (EDB)	ND	3.9	1	05/17/2017 22:24
1,2-Dichlorobenzene	ND	3.0	1	05/17/2017 22:24
1,3-Dichlorobenzene	ND	3.0	1	05/17/2017 22:24
1,4-Dichlorobenzene	ND	3.0	1	05/17/2017 22:24
Dichlorodifluoromethane	ND	2.5	1	05/17/2017 22:24
1,1-Dichloroethane	ND	2.0	1	05/17/2017 22:24
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	05/17/2017 22:24
1,1-Dichloroethene	ND	2.0	1	05/17/2017 22:24
cis-1,2-Dichloroethene	ND	2.0	1	05/17/2017 22:24
trans-1,2-Dichloroethene	ND	2.0	1	05/17/2017 22:24
1,2-Dichloropropane	ND	2.4	1	05/17/2017 22:24
cis-1,3-Dichloropropene	ND	2.3	1	05/17/2017 22:24



 Client:
 Geosolve, Inc.

 Date Received:
 5/15/17 17:00

 Date Prepared:
 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

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Volatile	()rgai	ทาศ ("ส	ompounds
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Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-9	1705682-003A	SoilGas	05/15/2017 14:00 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
14.73	29.36			AK
<u>Analytes</u>	Result	RL	<u>DF</u>	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	05/17/2017 22:24
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	05/17/2017 22:24
Diisopropyl ether (DIPE)	ND	2.1	1	05/17/2017 22:24
1,4-Dioxane	ND	1.8	1	05/17/2017 22:24
Ethanol	ND	96	1	05/17/2017 22:24
Ethyl acetate	ND	1.8	1	05/17/2017 22:24
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	05/17/2017 22:24
Ethylbenzene	ND	2.2	1	05/17/2017 22:24
4-Ethyltoluene	ND	2.5	1	05/17/2017 22:24
Freon 113	ND	3.9	1	05/17/2017 22:24
Heptane	ND	21	1	05/17/2017 22:24
Hexachlorobutadiene	ND	5.4	1	05/17/2017 22:24
Hexane	ND	18	1	05/17/2017 22:24
2-Hexanone	ND	2.1	1	05/17/2017 22:24
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	05/17/2017 22:24
Methyl-t-butyl ether (MTBE)	ND	1.8	1	05/17/2017 22:24
Methylene chloride	ND	8.8	1	05/17/2017 22:24
Methyl methacrylate	ND	2.1	1	05/17/2017 22:24
Naphthalene	ND	5.3	1	05/17/2017 22:24
Propene	ND	88	1	05/17/2017 22:24
Styrene	ND	2.2	1	05/17/2017 22:24
1,1,1,2-Tetrachloroethane	ND	3.5	1	05/17/2017 22:24
1,1,2,2-Tetrachloroethane	ND	3.5	1	05/17/2017 22:24
Tetrachloroethene	ND	3.4	1	05/17/2017 22:24
Tetrahydrofuran	ND	3.0	1	05/17/2017 22:24
Toluene	ND	1.9	1	05/17/2017 22:24
1,2,4-Trichlorobenzene	ND	3.8	1	05/17/2017 22:24
1,1,1-Trichloroethane	ND	2.8	1	05/17/2017 22:24
1,1,2-Trichloroethane	ND	2.8	1	05/17/2017 22:24
Trichloroethene	ND	2.8	1	05/17/2017 22:24
Trichlorofluoromethane	ND	2.8	1	05/17/2017 22:24
1,2,4-Trimethylbenzene	ND	2.5	1	05/17/2017 22:24
1,3,5-Trimethylbenzene	ND	2.5	1	05/17/2017 22:24

Analytical Report

Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682 Extraction Method: TO15

Analytical Method: TO15

Unit: $\mu g/m^3$

	Volatil	le Organic C	Compounds			
Client ID	Lab ID	Matrix	Date Collected	Instru	nent	Batch ID
SG-9	1705682-003A	SoilGas	05/15/2017 14:00	GC43		139079
Initial Pressure (psia)	Final Pressure	e (psia)				Analyst(s)
14.73	29.36					AK
<u>Analytes</u>		Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Vinyl Acetate		ND		18	1	05/17/2017 22:24
Vinyl Chloride		ND		1.3	1	05/17/2017 22:24
Xylenes, Total		ND		6.6	1	05/17/2017 22:24
<u>Surrogates</u>		REC (%)		<u>Limits</u>		
1,2-DCA-d4		96		70-130		05/17/2017 22:24
Toluene-d8		97		70-130		05/17/2017 22:24
4-BFB		102		70-130		05/17/2017 22:24



Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

Volatile	Organic	Compounds
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Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-10	1705682-004A	SoilGas	05/15/2017 14:20 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
12.59	25.10			AK
Analytes	<u>Result</u>	<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND	60	1	05/17/2017 08:51
Acrolein	ND	5.8	1	05/17/2017 08:51
Acrylonitrile	ND	1.1	1	05/17/2017 08:51
tert-Amyl methyl ether (TAME)	ND	2.1	1	05/17/2017 08:51
Benzene	ND	1.6	1	05/17/2017 08:51
Benzyl chloride	ND	2.6	1	05/17/2017 08:51
Bromodichloromethane	ND	3.5	1	05/17/2017 08:51
Bromoform	ND	5.2	1	05/17/2017 08:51
Bromomethane	ND	2.0	1	05/17/2017 08:51
1,3-Butadiene	ND	1.1	1	05/17/2017 08:51
2-Butanone (MEK)	ND	75	1	05/17/2017 08:51
t-Butyl alcohol (TBA)	ND	31	1	05/17/2017 08:51
Carbon Disulfide	ND	1.6	1	05/17/2017 08:51
Carbon Tetrachloride	ND	3.2	1	05/17/2017 08:51
Chlorobenzene	ND	2.4	1	05/17/2017 08:51
Chloroethane	ND	1.3	1	05/17/2017 08:51
Chloroform	ND	2.4	1	05/17/2017 08:51
Chloromethane	ND	1.0	1	05/17/2017 08:51
Cyclohexane	ND	18	1	05/17/2017 08:51
Dibromochloromethane	ND	4.4	1	05/17/2017 08:51
1,2-Dibromo-3-chloropropane	ND	0.12	1	05/17/2017 08:51
1,2-Dibromoethane (EDB)	ND	3.9	1	05/17/2017 08:51
1,2-Dichlorobenzene	ND	3.0	1	05/17/2017 08:51
1,3-Dichlorobenzene	3.5	3.0	1	05/17/2017 08:51
1,4-Dichlorobenzene	ND	3.0	1	05/17/2017 08:51
Dichlorodifluoromethane	2.5	2.5	1	05/17/2017 08:51
1,1-Dichloroethane	ND	2.0	1	05/17/2017 08:51
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	05/17/2017 08:51
1,1-Dichloroethene	ND	2.0	1	05/17/2017 08:51
cis-1,2-Dichloroethene	ND	2.0	1	05/17/2017 08:51
trans-1,2-Dichloroethene	ND	2.0	1	05/17/2017 08:51
1,2-Dichloropropane	ND	2.4	1	05/17/2017 08:51
cis-1,3-Dichloropropene	ND	2.3	1	05/17/2017 08:51



Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682

Extraction Method: TO15 **Analytical Method:** TO15

Unit: $\mu g/m^3$

Volatile	Organic	Compounds
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Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID
SG-10	1705682-004A	SoilGas	05/15/2017 14:20 GC43	139079

Initial Pressure (psia)	Final Pressure (psia)			Analyst(s)
12.59	25.10			AK
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	05/17/2017 08:51
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	05/17/2017 08:5
Diisopropyl ether (DIPE)	ND	2.1	1	05/17/2017 08:51
1,4-Dioxane	ND	1.8	1	05/17/2017 08:5
Ethanol	ND	960	10	05/17/2017 08:08
Ethyl acetate	ND	1.8	1	05/17/2017 08:5
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	05/17/2017 08:5
Ethylbenzene	ND	2.2	1	05/17/2017 08:5
4-Ethyltoluene	ND	2.5	1	05/17/2017 08:5
Freon 113	ND	3.9	1	05/17/2017 08:5
Heptane	ND	21	1	05/17/2017 08:5
Hexachlorobutadiene	ND	5.4	1	05/17/2017 08:5
Hexane	ND	18	1	05/17/2017 08:5
2-Hexanone	ND	2.1	1	05/17/2017 08:5
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	05/17/2017 08:5
Methyl-t-butyl ether (MTBE)	ND	1.8	1	05/17/2017 08:5
Methylene chloride	ND	8.8	1	05/17/2017 08:5
Methyl methacrylate	ND	2.1	1	05/17/2017 08:5
Naphthalene	ND	5.3	1	05/17/2017 08:5
Propene	ND	88	1	05/17/2017 08:5
Styrene	ND	2.2	1	05/17/2017 08:5
1,1,1,2-Tetrachloroethane	ND	3.5	1	05/17/2017 08:5
1,1,2,2-Tetrachloroethane	ND	3.5	1	05/17/2017 08:5
Tetrachloroethene	ND	3.4	1	05/17/2017 08:5
Tetrahydrofuran	ND	3.0	1	05/17/2017 08:5
Toluene	ND	1.9	1	05/17/2017 08:5
1,2,4-Trichlorobenzene	ND	3.8	1	05/17/2017 08:5
1,1,1-Trichloroethane	ND	2.8	1	05/17/2017 08:5
1,1,2-Trichloroethane	ND	2.8	1	05/17/2017 08:5
Trichloroethene	ND	2.8	1	05/17/2017 08:5
Trichlorofluoromethane	ND	2.8	1	05/17/2017 08:5
1,2,4-Trimethylbenzene	ND	2.5	1	05/17/2017 08:5
1,3,5-Trimethylbenzene	ND	2.5	1	05/17/2017 08:51

Analytical Report

Client: Geosolve, Inc.

Date Received: 5/15/17 17:00

Date Prepared: 5/17/17

Project: 2015-29; 19th and Harrison

WorkOrder: 1705682 Extraction Method: TO15

Analytical Method: TO15

Unit: $\mu g/m^3$

Volatile Organic Compounds								
Client ID	Lab ID	Matrix	Date Collected	Instru	nent	Batch ID		
SG-10	1705682-004A	SoilGas	05/15/2017 14:20 GC43		139079			
Initial Pressure (psia)	Final Pressure	e (psia)				Analyst(s)		
12.59	25.10					AK		
<u>Analytes</u>		Result		<u>RL</u>	<u>DF</u>	Date Analyzed		
Vinyl Acetate		ND		18	1	05/17/2017 08:51		
Vinyl Chloride		ND		1.3	1	05/17/2017 08:51		
Xylenes, Total		ND		6.6	1	05/17/2017 08:51		
Surrogates		REC (%)		<u>Limits</u>				
1,2-DCA-d4		97		70-130		05/17/2017 08:51		
Toluene-d8		97		70-130		05/17/2017 08:51		
4-BFB		103		70-130		05/17/2017 08:51		

Quality Control Report

 Client:
 Geosolve, Inc.
 WorkOrder:
 1705682

 Date Prepared:
 5/16/17
 BatchID:
 139075

Date Analyzed:5/16/17Extraction Method:ASTM D 1946-90Instrument:GC26Analytical Method:ASTM D 1946-90

Matrix: SoilGas Unit: %

Project: 2015-29; 19th and Harrison **Sample ID:** MB/LCS-139075

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Oxygen	ND	0.572	0.20	0.70	_	82	70-130

Quality Control Report

 Client:
 Geosolve, Inc.
 WorkOrder:
 1705682

 Date Prepared:
 5/16/17
 BatchID:
 139074

Date Analyzed:5/16/17Extraction Method:ASTM D 1946-90Instrument:GC26Analytical Method:ASTM D 1946-90

Matrix: SoilGas Unit: %

Project: 2015-29; 19th and Harrison **Sample ID:** MB/LCS-139074

QC Summary Report for ASTM D1946-90

Analyte	MB Result			SPK Val	MB SS %REC	LCS %REC	LCS Limits	
Carbon Dioxide	ND	0.00807	0.0020	0.010	-	81	70-130	
Methane	ND	0.00701	0.00010	0.010	-	70	70-130	

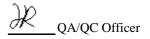
Quality Control Report

Client: Geosolve, Inc. WorkOrder: 1705682 139079 **Date Prepared:** 5/16/17 **BatchID: Date Analyzed:** 5/16/17 **Extraction Method: TO15** GC43 **Analytical Method: TO15 Instrument: Matrix:** SoilGas **Unit:** $\mu g/m^3$

Project: 2015-29; 19th and Harrison **Sample ID:** MB/LCS-139079

QC Summary	Re	port	for	TO15
		DOLU	101	1010

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	73.9	30	60	-	123	60-140
Acrolein	ND	57.1	2.9	58.25	-	98	60-140
Acrylonitrile	ND	54.4	0.55	55	-	99	60-140
tert-Amyl methyl ether (TAME)	ND	119	1.0	105	-	113	60-140
Benzene	ND	78.3	0.80	80	-	98	60-140
Benzyl chloride	ND	137	1.3	132.5	-	103	60-140
Bromodichloromethane	ND	196	1.8	175	-	112	60-140
Bromoform	ND	320	2.6	262.5	-	122	60-140
Bromomethane	ND	105	1.0	97.5	-	107	60-140
1,3-Butadiene	ND	49.7	0.55	55	-	90	60-140
2-Butanone (MEK)	ND	71.0	38	75	-	95	60-140
t-Butyl alcohol (TBA)	ND	83.1	16	77.5	-	107	60-140
Carbon Disulfide	ND	87.0	0.80	80	-	109	60-140
Carbon Tetrachloride	ND	187	1.6	160	-	117	60-140
Chlorobenzene	ND	126	1.2	117.5	-	107	60-140
Chloroethane	ND	69.9	0.65	67.5	-	104	60-140
Chloroform	ND	121	1.2	122.5	-	98	60-140
Chloromethane	ND	53.5	0.50	52.5	-	102	60-140
Cyclohexane	ND	92.2	9.0	87.5	-	105	60-140
Dibromochloromethane	ND	255	2.2	217.5	-	117	60-140
1,2-Dibromo-3-chloropropane	ND	301	0.060	245	-	123	60-140
1,2-Dibromoethane (EDB)	ND	194	2.0	195	-	100	60-140
1,2-Dichlorobenzene	ND	190	1.5	152.5	-	125	60-140
1,3-Dichlorobenzene	ND	190	1.5	152.5	-	125	60-140
1,4-Dichlorobenzene	ND	177	1.5	152.5	-	116	60-140
Dichlorodifluoromethane	ND	104	1.2	125	-	84	60-140
1,1-Dichloroethane	ND	107	1.0	102.5	-	104	60-140
1,2-Dichloroethane (1,2-DCA)	ND	100	1.0	102.5	-	98	60-140
1,1-Dichloroethene	ND	101	1.0	100	-	101	60-140
cis-1,2-Dichloroethene	ND	107	1.0	100	-	107	60-140
trans-1,2-Dichloroethene	ND	105	1.0	100	-	105	60-140
1,2-Dichloropropane	ND	120	1.2	117.5	-	102	60-140
cis-1,3-Dichloropropene	ND	134	1.2	115	-	116	60-140
trans-1,3-Dichloropropene	ND	130	1.2	115	-	113	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	186	1.8	177.5	-	105	60-140
Diisopropyl ether (DIPE)	ND	114	1.0	105	-	108	60-140
1,4-Dioxane	ND	76.2	0.90	92.5	-	82	60-140



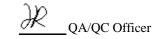
Quality Control Report

Client: Geosolve, Inc. WorkOrder: 1705682 139079 **Date Prepared:** 5/16/17 **BatchID: Date Analyzed:** 5/16/17 **Extraction Method: TO15 Instrument:** GC43 **Analytical Method: TO15 Matrix:** SoilGas **Unit:** $\mu g/m^3$

Project: 2015-29; 19th and Harrison **Sample ID:** MB/LCS-139079

QC Summary	Report	for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethanol	ND	ND	48	47.5	-	63	60-140
Ethyl acetate	ND	91.7	0.90	92.5	=	99	60-140
Ethyl tert-butyl ether (ETBE)	ND	114	1.0	105	=	109	60-140
Ethylbenzene	ND	123	1.1	110	=	112	60-140
4-Ethyltoluene	ND	169	1.2	125	=	135	60-140
Freon 113	ND	199	2.0	195	=	102	60-140
Heptane	ND	112	10	105	-	107	60-140
Hexachlorobutadiene	ND	276	2.7	270	-	102	60-140
Hexane	ND	115	9.0	90	-	127	60-140
2-Hexanone	ND	93.0	1.0	105	-	89	60-140
Isopropyl Alcohol	ND	56.3	25	62.5	-	90	60-140
4-Methyl-2-pentanone (MIBK)	ND	106	1.0	105	-	101	60-140
Methyl-t-butyl ether (MTBE)	ND	101	0.90	92.5	-	109	60-140
Methylene chloride	ND	87.8	4.4	87.5	-	100	60-140
Methyl methacrylate	ND	107	1.0	104	-	103	60-140
Naphthalene	ND	373	2.6	265	-	141, F2	60-140
Propene	ND	ND	44	42.5	-	81	60-140
Styrene	ND	120	1.1	107.5	-	111	60-140
1,1,1,2-Tetrachloroethane	ND	188	1.8	175	-	107	60-140
1,1,2,2-Tetrachloroethane	ND	182	1.8	175	-	104	60-140
Tetrachloroethene	ND	193	1.7	172	-	112	60-140
Tetrahydrofuran	ND	73.7	1.5	75	-	98	60-140
Toluene	ND	101	0.95	95	-	107	60-140
1,2,4-Trichlorobenzene	ND	242	1.9	187.5	-	129	60-140
1,1,1-Trichloroethane	ND	152	1.4	137.5	-	111	60-140
1,1,2-Trichloroethane	ND	141	1.4	137.5	-	103	60-140
Trichloroethene	ND	140	1.4	137.5	-	102	60-140
Trichlorofluoromethane	ND	144	1.4	142.5	=	101	60-140
1,2,4-Trimethylbenzene	ND	177	1.2	125	-	141, F2	60-140
1,3,5-Trimethylbenzene	ND	163	1.2	125	-	131	60-140
Vinyl Acetate	ND	117	9.0	90	-	130	60-140
Vinyl Chloride	ND	48.3	0.65	65	-	74	60-140
Xylenes, Total	ND	373	3.3	330	-	113	60-140



Quality Control Report

Client: Geosolve, Inc. WorkOrder: 1705682 139079 **Date Prepared:** 5/16/17 **BatchID: Date Analyzed:** 5/16/17 **Extraction Method: TO15 Instrument:** GC43 **Analytical Method: TO15 Matrix:** SoilGas **Unit:** $\mu g/m^3$

Project: 2015-29; 19th and Harrison **Sample ID:** MB/LCS-139079

QC Summary Report for TO15										
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits			
Surrogate Recovery										
1,2-DCA-d4	473.6	467		500	95	93	70-130			
Toluene-d8	482.5	486		500	97	97	70-130			
4-BFB	511.1	531		500	102	106	70-130			

McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1705682 ClientCode: GSP

WaterTrax	WriteOn	☐ EDF	Excel	■ EQuIS	🗾 Email	HardCopy	ThirdParty	☐ J-fla
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Report to: Bill to: Requested TAT: 5 days;

Rob Campbell Email: rcampbell@geosolve-inc.com Lisa Campbell Geosolve, Inc. cc/3rd Party: Geosolve, Inc.

 1807 Santa Rita Road, Suite D-165
 PO: 2015-29
 1807 Santa Rita Road, Suite D-165
 Date Received: 05/15/2017

 Pleasanton, CA 94566
 ProjectNo: 2015-29; 19th and Harrison
 Pleasanton, CA 94566
 Date Logged: 05/15/2017

(925) 963-1198 FAX: Icampbell@geosolve-inc.com

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1705682-001	SG-7	SoilGas	5/15/2017 13:40		Α	Α		Α	Α	Α	Α	Α				'
1705682-002	SG-8	SoilGas	5/15/2017 13:50		Α	Α		Α	Α	Α	Α	Α				
1705682-003	SG-9	SoilGas	5/15/2017 14:00		Α	Α		Α	Α	Α	Α	Α				
1705682-004	SG-10	SoilGas	5/15/2017 14:20		Α	Α		Α	Α	Α	Α	Α				
1705682-005	Unused Summa 1	SoilGas	<not provided=""></not>				Α						Α			
1705682-006	Unused Summa 2	SoilGas	<not provided=""></not>				Α						Α			
1705682-007	Unused Summa 3	SoilGas	<not provided=""></not>				Α						Α			

Test Legend:

1 ATMOSPHERICGAS_SG(%)	2 LG_SUMMA_SOILGAS(%)	3 PRUNUSEDSUMMA	4 TO15_HIGHLEVEL_SOIL(UG/M3)
5 TO15_HIGHLEVEL-LC_SOIL(UG/M3)	6 TO15_Scan-SIM_SOIL(UG/M3) [N]	7 TO15-8260_SOIL(UG/M3) [N]	8 TO15-LC_SOIL(UG/M3) [N]
9 UNUSED_SUMMA	10	11	12

Prepared by: Jena Alfaro

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup TO15_SG(UG/M3).

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.



McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: GEOSOLVE, INC. Project: 2015-29; 19th and Harrison Work Order: 1705682

Client Contact: Rob Campbell

QC Level: LEVEL 2

Contact's Email: rcampbell@geosolve-inc.com

Comments: changed to 3 day 5/16/17.

Date Logged: 5/15/2017

Tab ID			WaterTrax	WriteOn EDF	Excel	Fax Email	HardC	opyThirdPar	tyJ	-flag
ASTM D1946-90 (CO, CO2, C1-C6) 3 days 1705682-002A SG-8 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 13:50 5 days 1705682-003A SG-9 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:00 5 days 1705682-004A SG-10 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:00 5 days 1705682-005A SG-9 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:00 5 days 1705682-004A SG-10 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:00 5 days 1705682-004A SG-10 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:20 5 days 1705682-005A SG-10 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:20 5 days 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 (N2 O2) < Oxygen> 3 days 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 1705682-005A Unused Summa 1 1L Summa SIM D1946-90 Sdays 170568	Lab ID	Client ID	Matrix	Test Name		Bottle & Preservative			TAT	Sediment Hold SubOut Content
Carbon Dioxide_2, Methane_4> ASTM D1946-90 (N2 O2) < Coxygen> 3 days 1 1 1 1 1 1 1 1 1	1705682-001A	SG-7	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa		5/15/2017 13:40	5 days	
T05682-002A SG-8 SoilGas T015 for Soil Vapor (Scan-SIM) 1									3 days	
ASTM D1946-90 (CO, CO2, C1-C6)				ASTM D1946-90 (N2 O2) <oxygen></oxygen>					3 days	
Carbon Dioxide_2, Methane_4>	1705682-002A	SG-8	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa		5/15/2017 13:50	5 days	
1705682-003A SG-9 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:00 5 days 1									3 days	
ASTM D1946-90 (CO, CO2, C1-C6)				ASTM D1946-90 (N2 O2) <oxygen></oxygen>					3 days	
Carbon Dioxide_2, Methane_4> ASTM D1946-90 (N2 O2) <oxygen> 3 days 1705682-004A SG-10 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:20 5 days ASTM D1946-90 (CO, CO2, C1-C6) 3 days 3 days 1705682-005A Unused Summa 1 SoilGas Unused Summa 2 SoilGas Unused Summa 1 1L Summa Not Provided> 5 days 1705682-006A Unused Summa 2 SoilGas Unused Summa 1 1L Summa Not Provided> 5 days 1705682-006A Unused Summa 2 SoilGas Unused Summa 1 SoilGas Unused Summa 1 SoilGas Unused Summa 2 SoilGas Unused Summa 3 SoilGas Unused Summa 4 SoilGas Unused Summa 5 SoilGas Unused Summa 6 SoilGas SoilGas Unused Summa 6 SoilGas SoilGas SoilGas Unused Summa 6 SoilGas SoilGas </oxygen>	1705682-003A	SG-9	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa		5/15/2017 14:00	5 days	
1705682-004A SG-10 SoilGas TO15 for Soil Vapor (Scan-SIM) 1 1L Summa 5/15/2017 14:20 5 days									3 days	
ASTM D1946-90 (CO, CO2, C1-C6)				ASTM D1946-90 (N2 O2) <oxygen></oxygen>					3 days	
Carbon Dioxide_2, Methane_4> ASTM D1946-90 (N2 O2) < Oxygen> 3 days 1705682-005A Unused Summa 1 SoilGas Unused Summa 1 1L Summa <not provided=""> 5 days 1705682-006A Unused Summa 2 SoilGas Unused Summa 1 1L Summa <not provided=""> 5 days</not></not>	1705682-004A	SG-10	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa		5/15/2017 14:20	5 days	
1705682-005A Unused Summa 1 SoilGas Unused Summa 1 1L Summa									3 days	
1705682-006A Unused Summa 2 SoilGas Unused Summa 1 1L Summa				ASTM D1946-90 (N2 O2) <oxygen></oxygen>					3 days	
	1705682-005A	Unused Summa 1	SoilGas	Unused Summa	1	1L Summa		<not provided=""></not>	5 days	
1705682-007A Unused Summa 3 SoilGas Unused Summa 1 1L Summa < Not Provided> 5 days	1705682-006A	Unused Summa 2	SoilGas	Unused Summa	1	1L Summa		<not provided=""></not>	5 days	
	1705682-007A	Unused Summa 3	SoilGas	Unused Summa	1	1L Summa		<not provided=""></not>	5 days	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

Changed to 3day 5/16/17 MAI Work Order # 1705682

· _ W	McCAMP	BELL	ANAI	LY	ΓICAL		CHAIN OF CUSTODY RECORD																		
1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701							Turn Around Time: 1 Day Rush 2 Day Rush 3 Da				3 Day	Rush	X	STD	• /	Quot	e #								
	Telepho	one: (877) 2:	52-9262 / Fa	ax: (92	5) 252-9269			J-Flag	MDL		ESL			Clean	ир Арр	roved				Bott	le Orde	r#			
	www.mccampb	ell.com	ma	in@n	nccampbell.	com	Deliv	ery Fo	rmat:	PDF		GeoT	Tracke	r EDF		EDD		Wı	rite On	(DW)		EQu	IS	T	
Report To: Rob Cam	pbell	the source of the last of	Bill To:	GeoS	olve, Inc.		T	100			devisionsports		o la constante	Aı	nalysi	s Re	quest	ted	- LITE AND PAR				COLUMN TO STATE OF THE PARTY.		
Company: GeoSolve	, Inc.						MTBE	I A S	-al	ont	[]								Π		Is	T	T		
Email: rcampbell@geosolve-inc.com									With	With	Oil &	118.1)	(S	only			(AAs)				meta				
Alt Email:			Tele:	(925)	963-1198		(8021/8015)	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silca Gel	Fotal Oil & Grease (1664/9071) Withou	Fotal Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) <u>With</u> Silica Gel	Petroleum Hydrocarbons (418.1) Silica Gel	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's; Aroclors only	(s;	Cs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	*(Lab to filter sample for dissolved metals analysis			1	
Project Name: 19th	and Harrison	~ 1	Project #:	2015-2	29		3021/	Moto	Moto	64/9	carbo ith Si	carbo	l Pest	Aro	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	РАН	CAM 17 Metals (200.8 / 6020)*			disso		6		
Project Location: 17	50 Webster Street Oa	akland CA	PO#	2015-	29		as (8	+ (2)	5) +) (166	ydro 1) W	ydro	11 (Cl	B's;	260 (270 (310 (8.00	6	Baylands Requirements	e for	(10		1
Sampler Signature:	John.	700					l as ((801 Gel	(801	reas	1 m H	el H	/ 808	12 PC	24/8	25/8	M/8	als (2	Metals (200.8 / 6020)	uire	ampl	1	_	#	
SAMPI	EID	Sam	pling	ners			& TPH	Diese Silica	Diese	8 G	rolei 1664	troleun ca Gel	/ 608	/ 808	2 / 6	2/6	18 0Z	Met	8.003	s Req	lter s			10)	
Location / F			· -	#Container	Matrix	Preservative	8X &	I as I	TPH as D	Fotal Oil Silica Gel	al Perase (al Petro <u>h</u> Silica	1 505	809 V	1 524	A 525	82.	M 17	als (land	Lab to fi analysis	12	7 0	4	
Eocation / I	Telu i onit	Date	Time	THE REAL PROPERTY.			BTEX	TPI	TPI	Tot	Total Greas	Tot	EP/	EP/	EP/	EP	EP/	CA	Met	Bay	Lab			7	
56-7	-	5-15-	1713:40	1	5011-90	Ø			7	1/3	16-	-11	319				-30	/-	5			1	1	X	
46-8	%	5-15-13	+13:50	1	1	1	10,	0	38	6-	25	14	131	6-	83	0	-3	0/	1-5			X	1	X	
56-9	7	5-15-1	71400	1			1	19	73	_	92	10	171		332		-30	/-	5			4	14	X	
56-10	2	G-15-1	714:20	> 1				1	1	/21	6-	24	3	0	(X)) _	30	1-				7		×	
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											-	The Real Property lies	All tally represent the	MANAGE AND A	Street Street,	-									
																		State Salland States		_	-	Maria Carlo and Carlo			
																						\top			
MAI clients MUST disclose	any dangerous chemical	s known to be r	present in their	submitte	ed samples in co	ncentrations the	at may	cause in	nmedia	te harm	or serio	oue futu	re heal	th enda	ngerme	nt as a	result o	of brief	gloved	onen	air sampl	handlin	y by MA	Lstaff	
Non-disclosure incurs an im																iii us a	resure	orier,	Biorea	, open c	m, sumpr	nunum	50) 1111	a starr.	
* If metals are requested	for water samples and	the water type	e (Matrix) is r	ot spec	cified on the ch	nain of custody	y, MAI	will d	efault	to met	ıls by E	E200.8.								Co	omments	/ Instru	tions		
Please provide an adequa	The same of the sa	NAME AND ADDRESS OF THE OWNER, WHEN PERSONS ASSESSED.	is not sufficie	nt for a	MS/MSD a L	CS/LCSD wil	l be pr	epared	in its j	olace a	nd note	d in th	e repo	rt.] ,	1	-)	0			
Relin	quished By / Company	y Name	7			me	1	Recei	ved B	y / Cor	npany l	Name			Commence of the	ite		me		10	s-)	_			
	M W/Ge	USO We	-, he.		15.17			3	and a	4					91		_	23		TI	7-1	5			
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L										01			***	****	L'	0.1					VO.	_,_	· .	C	1
Matrix Code: DW=1										=Slu	dge, A	4=Air	, WP	=Wi _j	pe, O	=Oth		r			02	Thirtie	U	C	
Preservative Code:	1=4°C 2=HCl	$3=H_2SO_4$	4=HNO ₃	5=Na	aOH 6=Zr	iUAc/NaOl	H 7	=Non	e]	Гетр			. J.C.	Ihitial			

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Sample Receipt Checklist

Project Name: WorkOrder №:	2015-29; 19th and Harrison 1705682 Matrix: SoilGas			Date and Time Received Date Logged: Received by: Logged by:	5/15/2017 17:00 5/15/2017 Jena Alfaro Jena Alfaro							
Carrier:	Benjamin Yslas (MAI Courier)											
Chain of Custody (COC) Information												
Chain of custody	present?	Yes	✓	No 🗆								
Chain of custody	signed when relinquished and received?	Yes	✓	No 🗆								
Chain of custody	agrees with sample labels?	Yes	✓	No 🗆								
Sample IDs note	d by Client on COC?	Yes	✓	No 🗆								
Date and Time of	f collection noted by Client on COC?	Yes	✓	No 🗆								
Sampler's name	noted on COC?	Yes	✓	No 🗆								
	Sampl	e Rece	eipt Informati	<u>ion</u>								
Custody seals int	tact on shipping container/cooler?	Yes		No 🗆	NA 🗹							
Shipping containe	er/cooler in good condition?	Yes	✓	No 🗌								
Samples in prope	er containers/bottles?	Yes	✓	No 🗌								
Sample containe	rs intact?	Yes	•	No 🗆								
Sufficient sample	e volume for indicated test?	Yes	•	No 🗆								
	Sample Preservation	on and	Hold Time (HT) Information								
All samples recei	ived within holding time?	Yes	✓	No 🗆	NA 🗌							
Sample/Temp Bla	ank temperature		Temp:		NA 🗹							
Water - VOA vial	s have zero headspace / no bubbles?	Yes		No 🗌	NA 🗹							
Sample labels ch	necked for correct preservation?	Yes	✓	No 🗌								
pH acceptable up	oon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes		No 🗌	NA 🗹							
Samples Receive	ed on Ice?	Yes		No 🗸								
UCMR3 Samples Total Chlorine	s: tested and acceptable upon receipt for EPA 522?	Yes			NA 🗹							
Free Chlorine t 300.1, 537, 539	ested and acceptable upon receipt for EPA 218.7, 9?	Yes		No 🗆	NA ✓							
Comments:	=========			=======	=======							