

Final
City of Suisun City
Highway 12 Logistics Center
Environmental Impact Report

Appendix B
Groundwater Soil and Gas Investigation

AECOM

September 2024



August 10, 2021

Buzz Oates Construction, Inc.
Attention: Joe Livaich
555 Capitol Mall, Suite 900
Sacramento, CA 95814

**GROUNDWATER AND SOIL GAS INVESTIGATION
PENNSYLVANIA AVENUE PROPERTY
APNs 0032-010-390 and 0032-020-100**
Pennsylvania Avenue south of Highway 12
Fairfield, Solano County, California
Brusca Reference No. 137-005

INTRODUCTION

In accordance with your request, our firm collected groundwater and soil gas samples beneath the subject property for laboratory analysis. The purpose of the investigation has been to evaluate whether a known past volatile organic compound (VOC) release northerly of the northwesterly portion of the property (at 1745 Enterprise Drive) and/or historical waste disposal within a former landfill near the easterly portion of the property (former Pennsylvania Avenue Closed Landfill) resulted in site impact conditions that would be a concern to the planned development of the subject property. Our scope of work included: permitting; utility clearance; exploratory drilling; collection of soil gas and groundwater samples; laboratory analysis of the collected samples; and evaluation of the results. This report presents our findings.

A *Vicinity Map* showing the location of the property is presented as Plate 1. Plate 2 is a *Site Map* showing current onsite conditions, the layout of planned buildings on the property, and our groundwater and soil gas sampling locations. Logs of the exploratory borings for groundwater sampling are presented as Plates 3 through 6. Groundwater analytical data from the site are summarized on Table I and the soil gas analytical data are summarized on Table II. Drilling permit documentation is presented in Appendix A, and the laboratory reports and chain-of-custody documentation are presented in Appendix B.



SITE DESCRIPTION AND BACKGROUND

The subject property is situated southerly of Highway 12, and westerly and easterly of Pennsylvania Avenue in Fairfield, Solano County, California. The property is vacant/undeveloped and generally unused save for occasional livestock grazing. The property is relatively flat and site surfaces supported low-lying grasses at the time of our investigation.

A number of commercial/light-industrial buildings are planned for the subject property; the layout of the planned buildings is shown on Plate 2. We understand the specific environmental concerns were raised during recent planning review of the contemplated development of the subject property. Specifically, it is known that a release of VOCs (solvents including tetrachloroethene [PCE]) occurred at a commercial/light-industrial property addressed as 1745 Enterprise Drive situated about 500 feet northerly of the northwesterly portion of the subject property of the subject property (across Highway 12). Past investigation of the VOC contamination case over ten years ago included the sampling of groundwater beneath the far northwesterly portion of the subject property; very low concentrations of 1,1-dichloroethane (DCA) and 1,1-dichloroethene (DCE) were detected beneath this portion of the subject property during past investigation of the property; the reported estimated extent of the VOC groundwater plume is shown on Plate 2. The subsurface VOC impacts related to the 1745 Enterprise Drive site were determined to represent a “low-risk” case, and the case was granted a “No Further Action” status by the San Francisco Bay Region Water Quality Control Board (SFBRWQCB) in 2011. Despite the closed case status, it was considered prudent to evaluate any current VOC impact beneath the northwesterly portion of the subject property, particularly any soil gas impact that could potentially present indoor air vapor intrusion risks to the planned building within that portion of the property.

Additionally, concern has been raised regarding a former landfill (identified as the Pennsylvania Avenue Closed Landfill) situated on the northeasterly adjoining property near planned buildings on the subject site (see Plate 2). We obtained and reviewed available documentation regarding the Pennsylvania Avenue Closed Landfill; our review indicates that the types of wastes disposed in this landfill are not well documented, and our research has not revealed past sampling in the vicinity of the landfill to evaluate whether waste disposal at this location resulted in subsurface contamination conditions that could potentially affect the subject property. As such, evaluation of groundwater and soil gas conditions at onsite locations near the landfill was considered prudent as a part of development planning.

INVESTIGATIVE ACTIVITIES

General

The purpose of the groundwater and soil gas investigation has been to evaluate subsurface conditions within areas of potential environmental concern at the subject property. Specifically, the sampling was performed to assess whether the known past VOC release northerly of the northwesterly portion of the property (across Highway 12 at 1745 Enterprise Drive) and/or historical waste disposal at the Pennsylvania Avenue Closed Landfill near the easterly portion of



the property resulted in site impact conditions that would be a concern to the planned development of the subject property.

Our scope of work included: permitting; utility clearance; exploratory drilling; collection of groundwater and soil gas samples; laboratory analysis of the collected samples; and evaluation of the results. All work was performed in accord with standard environmental protocol was overseen by a Professional Geologist from our office.

Permitting and Utility Clearance

Prior to the performance of exploratory drilling at the site, we processed the required drilling permit with the Solano County Department of Resource Management (SCDRM); drilling permit documentation is presented in Appendix A. We pre-marked the drilling/sampling locations and we contacted Underground Service Alert to clear the sampling locations of underground utilities.

Drilling and Groundwater Sampling

We selected four locations at the site (identified as B1 through B4) for drilling and groundwater sampling. As shown on Plate 2, Borings B1 and B2 were situated within onsite areas proximal to the adjoining landfill, and Borings B3 and B4 were located within the far northwesterly portion of the property in the general area of past reported groundwater VOC impact attributable to the release at 1745 Enterprise Drive.

The drilling and groundwater sampling were performed at the site on July 14, 2021 utilizing a truck-mounted direct push drill rig by a C57-licensed drilling contractor. Logs of the borings for B1 through B4 are attached. Continuous soil sampling was performed within Boring B1. Boring B1 encountered native alluvial deposits comprised predominantly of silty clays; a clayey silt interlayer was encountered within depths of about nine to 12 feet. Boring B1 generally was refused in stiff clays at a depth of about 23 feet; upon termination of Boring B1 at that depth, no water was present in the borehole. As such, it was decided to advance the remaining borings (B2, B3, and B4) using a smaller diameter probe without soil sampling in an attempt to achieve greater depths and to engage groundwater for sampling. Borings B2, B3 and B4 were advanced to a depth of 30 feet and stabilized groundwater levels within these borings was measured at depths on the order of five to seven feet (groundwater did not enter these boreholes until the borings were advanced to depths greater than 25 feet). Following an approximate four-hour period, groundwater entered the borehole for Boring B1 (which initially was dry) and stabilized at a depth of five feet.

A ¾-inch-diameter PVC temporary well was installed in each of the boreholes and a groundwater sample was collected from each temporary well via tubing fitted with a check valve. The groundwater samples (identified as B1-W through B4-W) were immediately transferred to appropriate laboratory-provided containers, labeled, and immediately placed on ice for transport to the analytical laboratory.

Following the drilling and sampling activities, each boring was backfilled with neat cement grout via tremmie in accord with SCDRM requirements.



Soil Gas Sampling

We selected four locations at the site (identified as SG1 through SG4) for soil gas sampling. As shown on Plate 2, soil gas samples SG1 and SG2 were collected within onsite areas proximal to the adjoining landfill, and samples SG3 and SG4 were collected beneath the far northwesterly portion of the property in the general area of past reported groundwater VOC impact attributable to the release at 1745 Enterprise Drive. Soil gas probe installation was performed at the site on July 14, 2021 by TEG of Rancho Cordova, California. TEG's low dead-volume soil gas sampling system has been inspected and endorsed by regulatory agencies including the EPA and the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). The sampling and testing were performed in general accord with current guidance published by the DTSC.¹

At each soil gas sampling location, a temporary soil gas probe was installed to the target depth of five feet using a truck-mounted direct push (Geoprobe) drill. One-eighth-inch diameter Nylaflow tubing fitted with a sampling tip was emplaced within each soil gas probe/hole at the target sampling depth. The portion of the probes immediately surrounding the dedicated soil gas sampling tips was backfilled with clean sand, and the remainder of each probe hole was sealed to the surface with hydrated bentonite.

Following a minimum two-hour equilibration period at each sampling location, the soil gas sampling assemblies were purged via a calibrated syringe to remove stagnant or ambient air. The purging flow rate did not exceed 200 milliliters (ml) per minute. Following the purging of a minimum of three volumes, a soil gas sample was collected from each probe via vacuum in a laboratory-provided, one-liter Summa canister.

During soil gas sampling, a shroud was placed over the ground surface and sampling equipment at each probe, and a leak check gas (1,1 difluoroethane) was used to evaluate whether the sampling apparatus and sealed annular space within the probe holes were tight and leak-free; as shown on the appended laboratory report, the analytical testing confirmed leak-free conditions (1,1, difluoroethane was not detected in any of the collected soil gas samples).

Following collection of the soil gas samples, the tubing and sampling tips were removed, and the probe holes were sealed.

Laboratory Testing

The groundwater and soil gas samples collected at the site were transported under chain-of-custody documentation to a State-certified laboratory (Sunstar Laboratories, Inc.; ELAP No. 2250) for analysis. All of the groundwater samples were analyzed for VOCs by EPA Method 8260B. The groundwater samples collected near the adjoining landfill (from Borings B1 and B2) additionally were analyzed for: gasoline-, diesel-, and motor oil-range petroleum hydrocarbons by EPA Method 8015B; semi-VOCs by EPA Method 8270C; polychlorinated biphenyls (PCBs) by EPA Method 8082; and CAM17 metals by EPA Method 6020.

¹ DTSC; "Advisory, Active Soil Gas Investigations"; July 2015.



All of the soil gas samples collected at the site were tested for VOCs by EPA Method TO-15. Additionally, the soil gas samples collected near the adjoining landfill (samples SG1 and SG2) also were analyzed for fixed gases, including methane, by ASTM Method D1946-90.

The results of the groundwater and soil gas laboratory analyses are summarized on Tables I and II, respectively. The laboratory reports and chain-of-custody documentation presented in Appendix B; quality control/quality assurance information is included in the laboratory reports.

RESULTS AND DISCUSSION

Groundwater Results

As shown on Table I and the appended laboratory report, the groundwater samples collected from Borings B1 and B2 (near the adjoining landfill) did not contain VOCs, semi-VOCs, PCBs, or petroleum hydrocarbons at concentrations above the laboratory reporting limits; these results are favorable. Some of the CAM17 metals were detected at concentrations above the laboratory reporting limits in the groundwater samples collected near landfill, including barium, cobalt, molybdenum, nickel, and zinc. In general, the detected concentrations of these metals in groundwater are considered low. None of the detected metals concentrations exceeds California Maximum Contaminant Levels (MCLs) for drinking water, except that the concentration of nickel (120 micrograms per liter [ug/L]) detected in groundwater sample B2-W slightly exceeds the MCL value of 100 ug/L. In our experience, such levels of nickel in groundwater in the region can be naturally occurring. The nickel detected in groundwater at the B2 location is not considered a significant concern to the planned development as long as shallow groundwater is not developed beneath the site for drinking water purposes.

The groundwater samples collected beneath the far northwesterly portion of the property (B3-W and B4-W) were analyzed for VOCs. Neither of these samples contained the tested VOCs at concentrations above the laboratory reporting limits, except that the B3-W groundwater sample contained 1,1-DCA and 1,1-DCE at concentrations of 1.0 ug/L and 5.5 ug/L, respectively, and the B4-W sample contained 1,1-DCE at a concentration of 1.9 ug/L. None of these VOC concentrations exceed their respective MCL values. Additionally, the detected concentrations of 1,1-DCA and 1,1-DCE in groundwater do not exceed screening values for indoor air vapor intrusion published by the SFBRWQCB. As such, the low concentrations of 1,1-DCA and 1,1-DCE detected in groundwater beneath the far northwesterly portion of the property are not considered a significant concern to the proposed development.

Soil Gas Results

As shown on Table II and the appended laboratory report, each of the soil gas collected beneath the subject property contained some of the tested VOCs at concentrations above the laboratory reporting limits. In general, the concentrations of VOCs detected in the soil gas samples are considered low.



To evaluate the significance of the VOCs detected in the soil gas samples from the subject site, we have compared the analytical results to Environmental Screening Levels (ESLs) published by the SFBRWQCB.² ESL values for commercial/industrial sites are presented on Table I along with the soil gas analytical data from the subject property. As shown on Table II, none of the VOC concentrations detected in the soil gas samples exceeds the referenced commercial/industrial ESL values, except that the concentration of PCE detected in sample SG4 (110 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) slightly exceeds the PCE ESL value of 67 $\mu\text{g}/\text{m}^3$. It is noted, however, that the SG4 soil gas sample was collected at a location outside of the footprint of the planned building on northwesterly portion of the site, and that the SG3 sample collected beneath the planned footprint area did not contain PCE at concentration above the ESL value. Further, the referenced ESL values for indoor air vapor intrusion were developed utilizing a default attenuation factor of 0.03, which generally is applicable to buildings constructed over a four-inch-thick concrete slab. Given the nature of the planned buildings at the subject site, it is very likely that the buildings would have floor slabs with a thickness on the order of six inches. As such, the cited ESL values likely are excessively conservative for the planned buildings. Considering the forgoing, the PCE and other VOCs detected in the soil gas samples would not appear to be a significant concern to the planned development. In the event that the building footprint for the planned northwesterly building is changed (and extended to the west), additional soil gas and indoor air vapor intrusion assessment could be considered.

The soil gas samples collected near the adjoining landfill (SG1 and SG2) also were tested for methane since decomposition of organic materials within landfills can generate methane gas. As shown on Table I, neither of these samples contained concentrations of methane above the laboratory reporting limits.

SUMMARY AND CONCLUSIONS

As described herein, our firm collected groundwater and soil gas samples beneath the subject property for laboratory analysis. The purpose of the investigation has been to evaluate whether a known past VOC release northerly of the northwesterly portion of the property (at 1745 Enterprise Drive) and/or historical waste disposal within a former landfill near the easterly portion of the property (former Pennsylvania Avenue Closed Landfill) resulted in site impact conditions that would be a concern to the planned development of the subject property. The results of the investigation generally are favorable; we did not identify groundwater or soil gas conditions beneath the site that would be a health risk considering available information regarding the planned development. A slightly elevated concentration of nickel (slightly above the MCL value) was detected in one groundwater sample collected westerly of the landfill and low concentrations of 1,1-DCA and 1,1-DCE (below MCL values) were detected in groundwater samples collected beneath the northwesterly portion of the property. These detected analytes in groundwater are not considered a health risk as long as shallow groundwater beneath the site is not developed for drinking water purposes.

The soil gas results also are generally favorable. The soil gas testing did not reveal elevated analyte concentrations, except that one soil gas sample (SG4) contained a slightly elevated

² San Francisco Bay Regional Water Quality Control Board; "Environmental Screening Levels"; July 2019.



concentration of PCE with respect to the conservative screening value considered. The SG4 location is situated outside of the footprint of the planned building on northwesterly portion of the site, and the SG3 sample collected beneath the planned footprint area did not contain PCE at concentration above the ESL value. Based on our evaluation and the currently proposed configuration of planned onsite buildings, it would not appear that the PCE detected in soil gas sample SG4 is a significant concern to the planned development. In the event that the building footprint for the planned northwesterly onsite building is changed (and extended to the west), additional soil gas and indoor air vapor intrusion assessment could be considered.

CLOSING

If you have any questions or require additional information, please contact the undersigned at (916) 677-1470.

Sincerely,

BRUSCA ASSOCIATES, INC.

Joe Brusca
Principal Engineering Geologist
Certified Engineering Geologist No. 1948



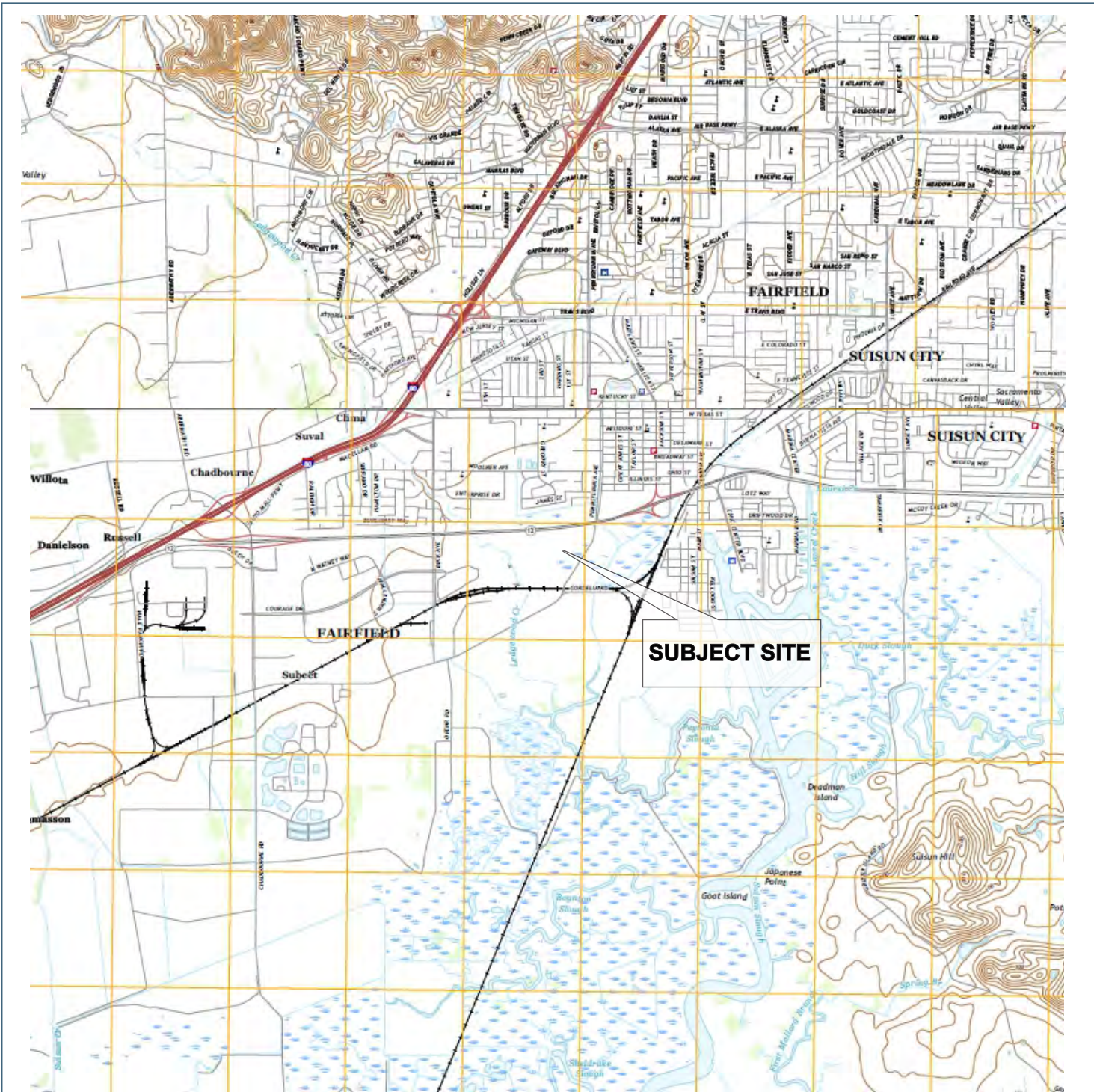
Attachments: Plate 1, *Vicinity Map*
Plate 2, *Site Map*
Plate 3, *Log of Boring B1*
Plate 4, *Log of Boring B2*
Plate 5, *Log of Boring B3*
Plate 6, *Log of Boring B4*

Table I – Summary of Groundwater Analytical Data

Table II – Summary of Soil Gas Analytical Data

Appendix A – Drilling Permit Documentation

Appendix B – Laboratory Reports and Chain-of-Custody Documentation



SOURCE: U.S.G.S. 7.5-minute Fairfield South Quadrangle, California, 2018
 Scale 1:24,000




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 Associates, Inc.
 Environmental Engineering Geology
 1860 Sierra Gardens Drive, # 332
 Roseville, CA 95661
 ph (916) 677-1470 fax (916) 677-1471
 BruscaAssociates.com

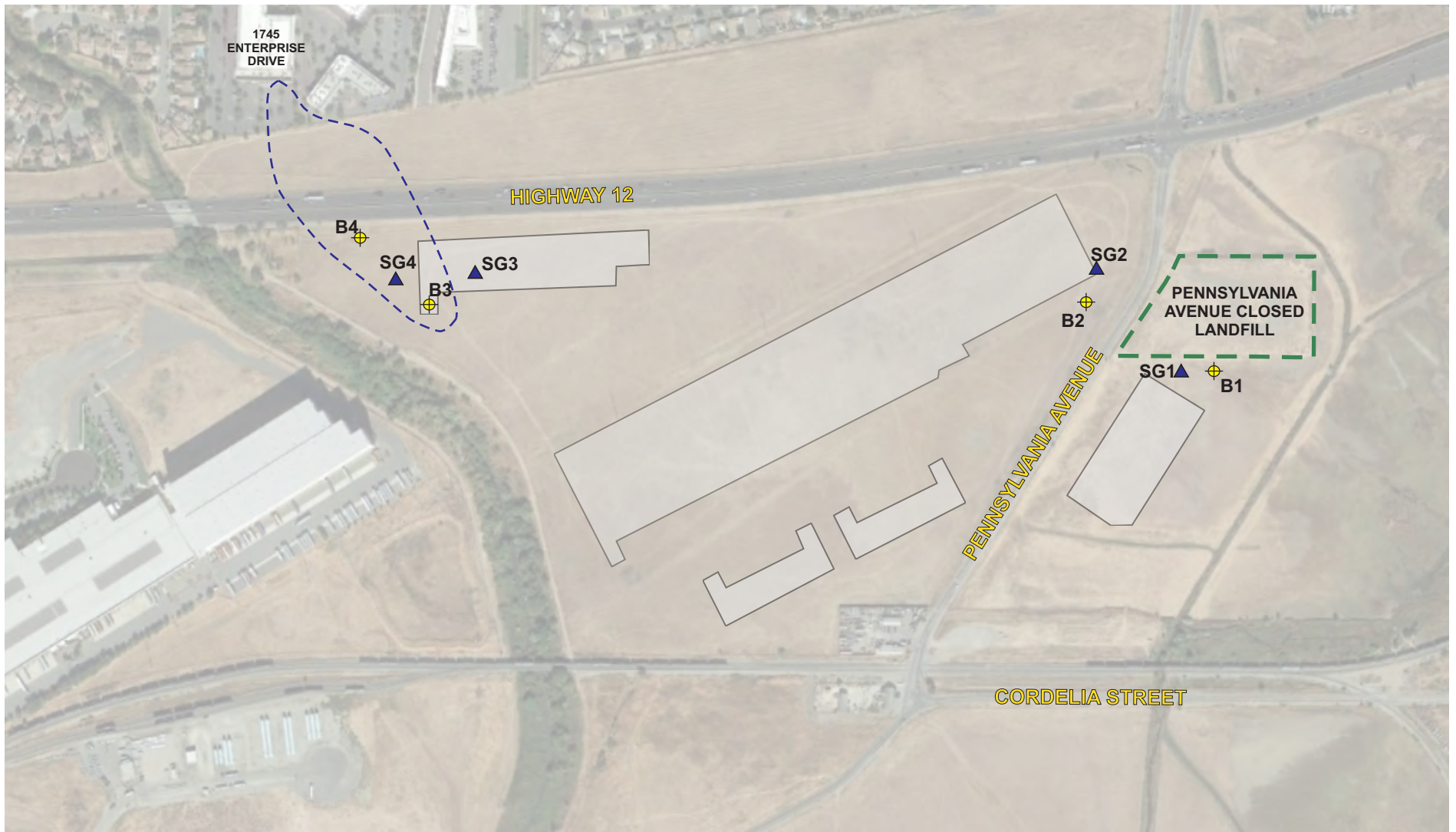
**PENNSYLVANIA AVENUE
 FAIRFIELD PROPERTY**





**Pennsylvania Avenue
 Fairfield, California**

Brusca Project No. 137-005

VICINITY MAP

PLATE 1



-  BORING FOR GROUNDWATER SAMPLING
-  SOIL GAS SAMPLING LOCATION
-  REPORTED LIMITS OF CONTAMINATED GROUNDWATER PLUME ASSOCIATED WITH 1745 ENTERPRISE DRIVE
-  PLANNED BUILDING

All features and locations are approximate only



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**PENNSYLVANIA AVENUE
 FAIRFIELD PROPERTY**

**Pennsylvania Avenue
 Fairfield, California**

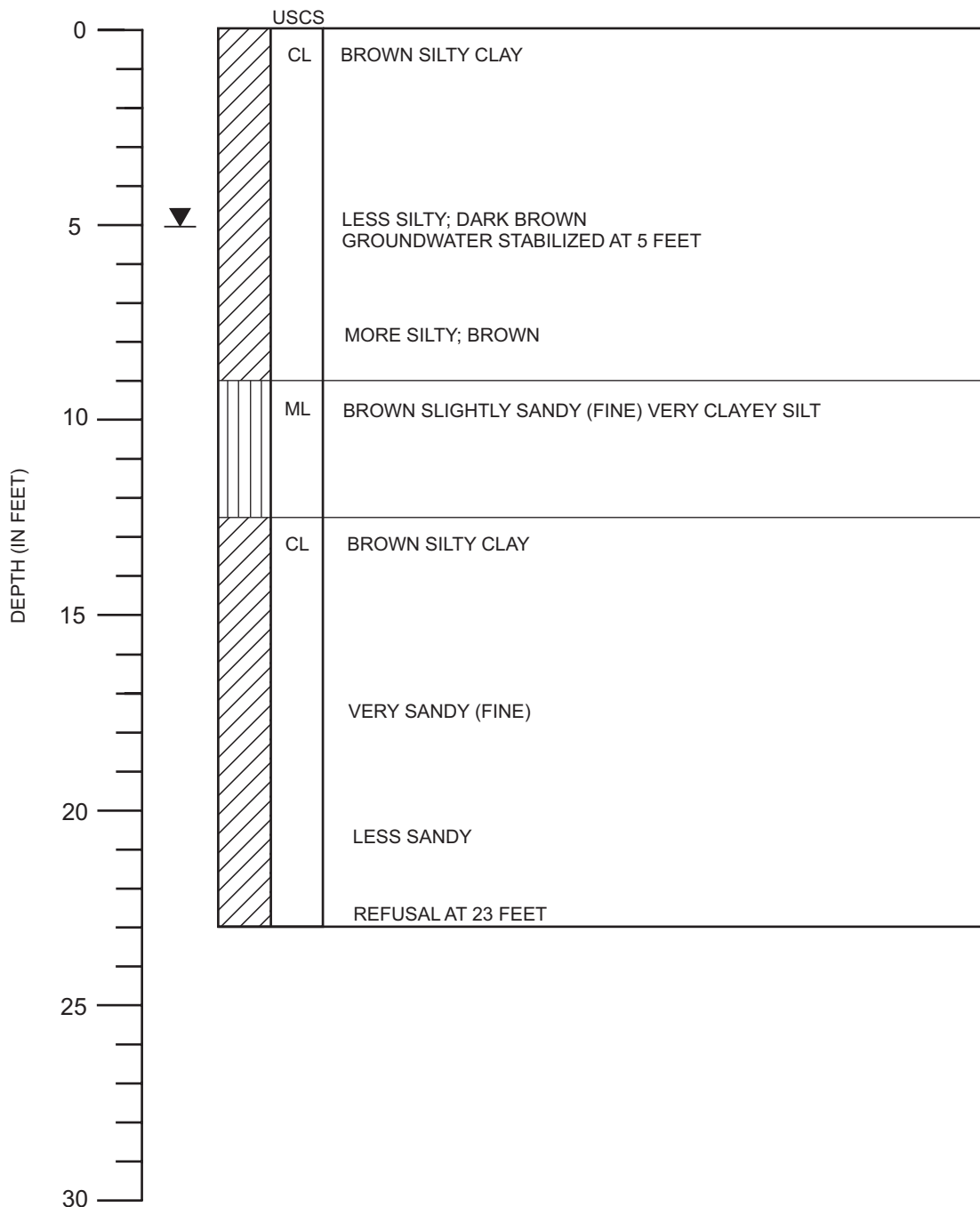
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SITE MAP

PLATE 2

LOG OF BORING B1

DRILLED: 7/14/2021



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PENNSYLVANIA AVENUE
FAIRFIELD PROPERTY

Pennsylvania Avenue
Fairfield, California

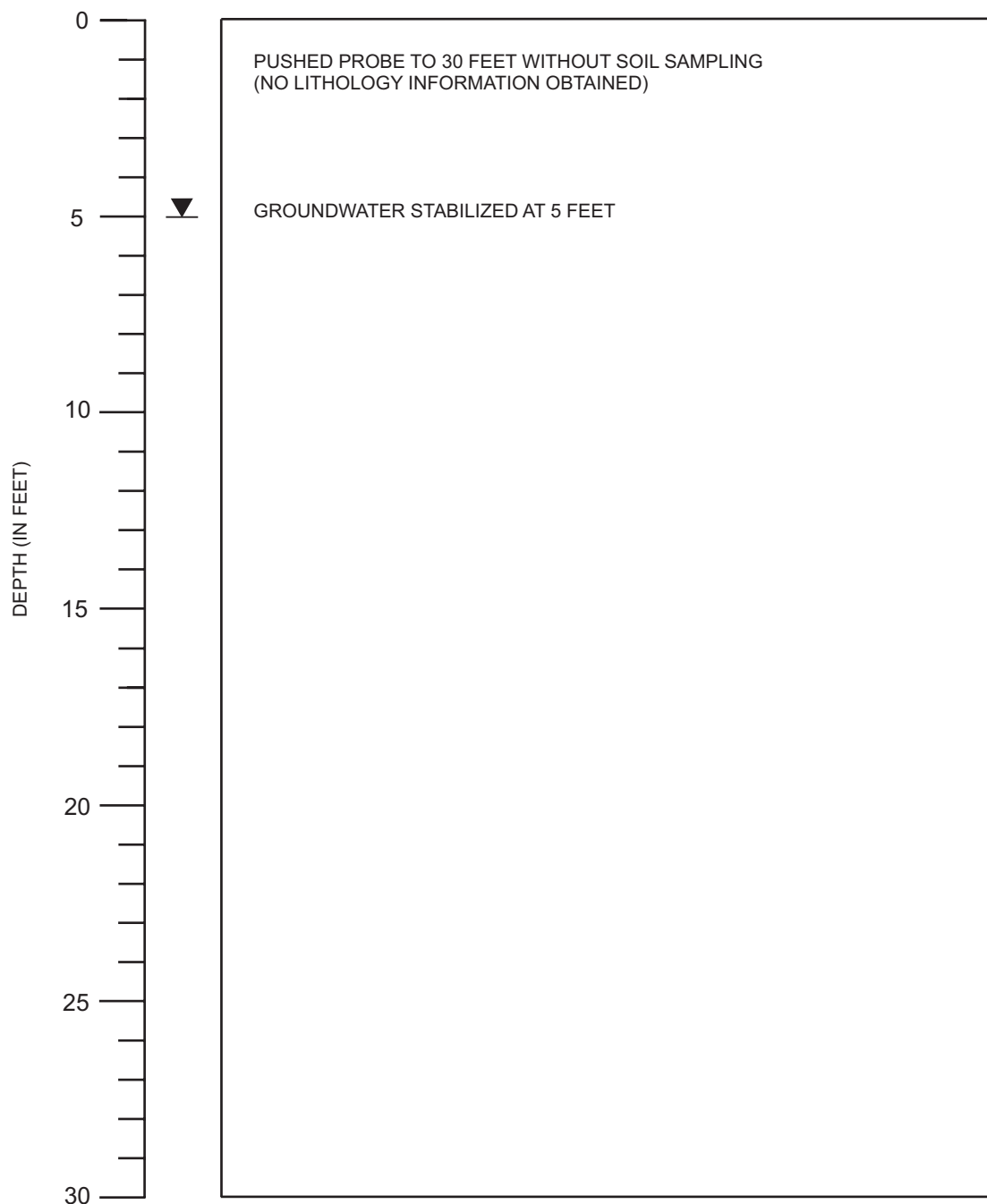
Brusca Project No. 137-005

**LOG OF BORING
B1**

PLATE 3

LOG OF BORING B2

DRILLED: 7/14/2021



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**PENNSYLVANIA AVENUE
FAIRFIELD PROPERTY**

**Pennsylvania Avenue
Fairfield, California**

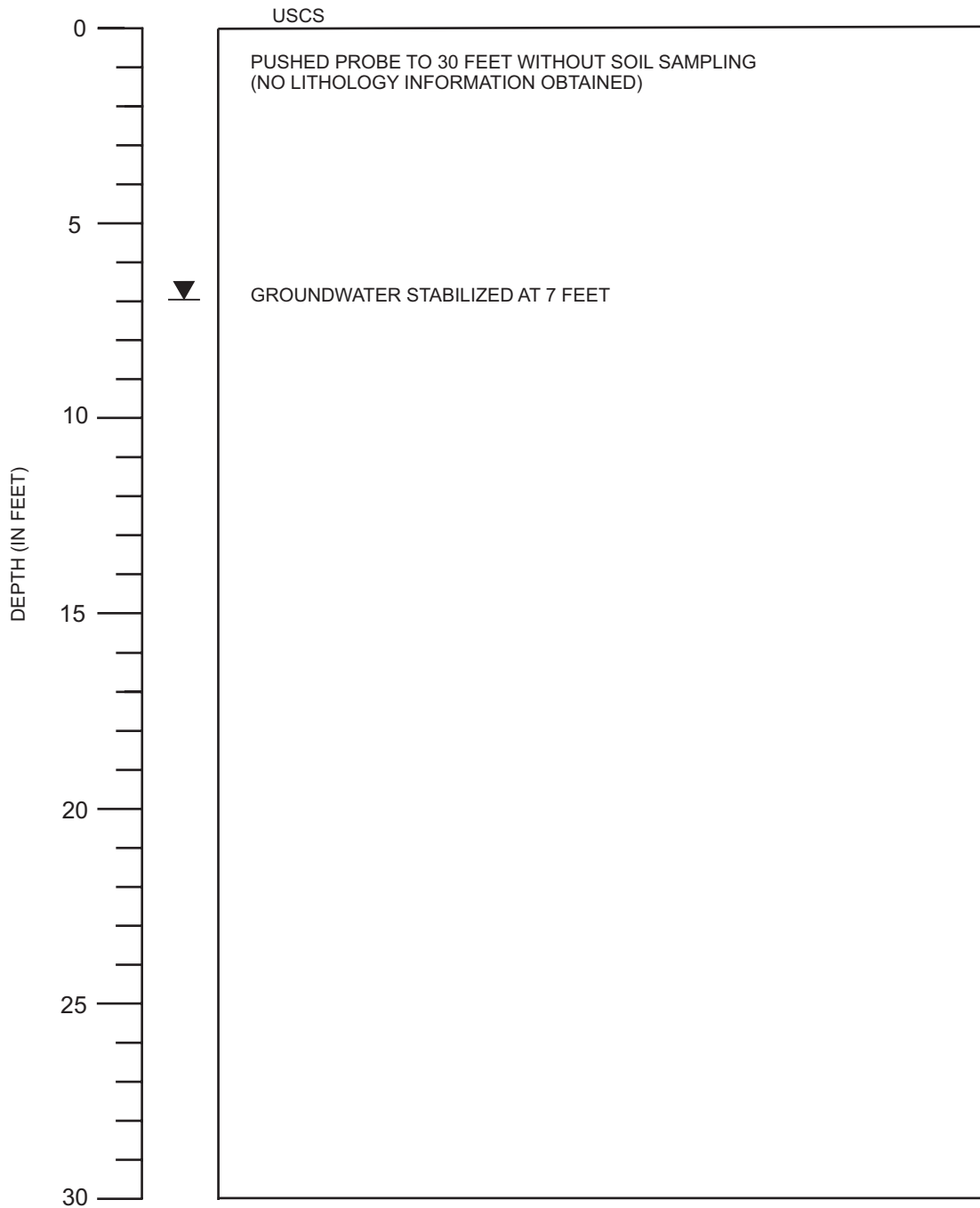
Brusca Project No. 137-005

**LOG OF BORING
B2**

PLATE 4

LOG OF BORING B3

DRILLED: 7/14/2021



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**PENNSYLVANIA AVENUE
FAIRFIELD PROPERTY**

**Pennsylvania Avenue
Fairfield, California**

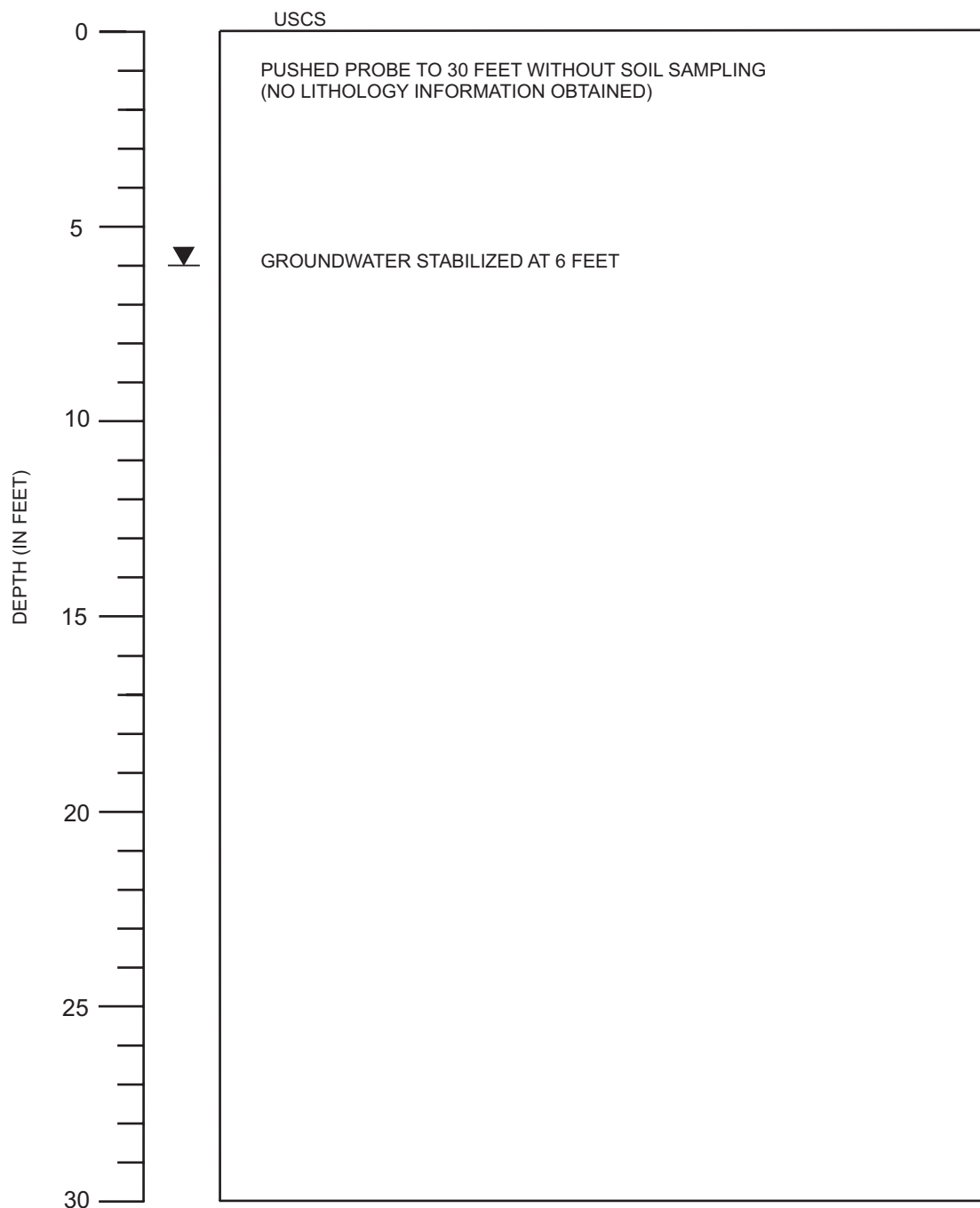
Brusca Project No. 137-005

**LOG OF BORING
B3**

PLATE 5

LOG OF BORING B4

DRILLED: 7/14/2021



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**PENNSYLVANIA AVENUE
FAIRFIELD PROPERTY**

**Pennsylvania Avenue
Fairfield, California**

Brusca Project No. 137-005

**LOG OF BORING
B4**

PLATE 6

TABLE I
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PENNSYLVANIA AVENUE PROPERTY
APNs 0032-010-390 and 0032-020-100

Pennsylvania Avenue south of Highway 12, Fairfield, Solano County, California

Brusca Project No. 137-005

Sample ID	Sample Location (See Plate 2)	PETROLEUM HYDROCARBONS			VOLATILE ORGANIC COMPOUNDS (VOCs)			SEMI VOCs	POLYCHLORINATED BIPHENYLS	METALS					
		Gasoline Range	Diesel Range	Motor Oil Range	1,1-Dichloroethane	1,1-Dichloroethene	Other VOCs (see lab report)			Barium	Cobalt	Molybdenum	Nickel	Zinc	Other Metals (see lab report)
B1-W	B1	ND	ND	ND	ND	ND	ND	ND	ND	450	110	24	50	260	ND
B2-W	B2	ND	ND	ND	ND	ND	ND	ND	ND	770	210	21	120	240	ND
B3-W	B3	NT	NT	NT	1.0	5.5	ND	NT	NT	NT	NT	NT	NT	NT	NT
B4-W	B4	NT	NT	NT	ND	1.9	ND	NT	NT	NT	NT	NT	NT	NT	NT
SCREENING LEVELS															
MCLs⁴		N/A	N/A	N/A	5.0	6.0				1,000	N/A	N/A	100	N/A	

- Notes: 1. All concentrations expressed in micrograms per liter (ug/L)
2. ND = Not detected at a concentration above the laboratory reporting limit
3. NT = Not tested
4. California Maximum Contaminant Level (MCL)
5. N/A = MCL established

TABLE II
SUMMARY OF SOIL GAS ANALYTICAL DATA
PENNSYLVANIA AVENUE PROPERTY
APNs 0032-010-390 and 0032-020-100

Pennsylvania Avenue south of Highway 12, Fairfield, Solano County, California

Brusca File No. 137-005

Sample Location (See Plate 2)	Depth (feet)	VOLATILE ORGANIC COMPOUNDS (VOCs)																				FIXED GASES			
		Acetone	Isopropyl alcohol	Carbon Disulfide	Hexane	Tetrahydrofuran	2-Butanone (Methyl Ethyl Ketone)	Methyl isobutyl ketone	Chloroform	Cyclohexane	Benzene	Trichloroethene (TCE)	Heptane	Toluene	Tetrachloroethene (PCE)	Ethylbenzene	Xylenes	Styrene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Other VOCs (see lab report)	Oxygen	Nitrogen	Methane	
SG1	5	100	ND	5.1	8.3	ND	33	ND	13	ND	4.1	ND	5.8	30	21	8.6	46	ND	ND	17	ND	20.9	78.4	ND	
SG2	5	400	ND	ND	71	ND	230	47	ND	5.1	ND	ND	5.5	120	ND	7.5	37	ND	9.3	28	ND	19.4	77.7	ND	
SG3	5	710	40	ND	6.2	6.2	230	ND	ND	ND	3.9	ND	ND	16	ND	4.9	25	ND	ND	14	ND	NT	NT	ND	
SG4	5	820	38	ND	5.4	ND	390	46	5.2	ND	9.4	16	ND	62	110	13	36	9.8	ND	15	ND	NT	NT	ND	
AGENCY SCREENING VALUES																									
ESL, Commercial/Industrial ⁴	4,500,000	N/A	N/A	N/A	N/A	N/A	730,000	440,000	18	N/A	14	100	N/A	44,000	67	160	15,000	130,000	N/A	N/A					

- Notes: 1. VOC concentrations expressed in micrograms per cubic meter (ug/m³). Fixed gasses concentraions in percent (%).
2. ND = Not detected at a concentration above the laboratory reporting limit
3. NT = Not tested
4. SFRWQCB Environmental Screening Level (ESL); July 2019
5. N/A = ESL value not published

APPENDIX A

Drilling Permit Documentation



**DEPARTMENT OF RESOURCE MANAGEMENT
ENVIRONMENTAL HEALTH SERVICES**

675 TEXAS ST., SUITE 5500
FAIRFIELD CA 94533
(707) 784-6765

**BORING PERMIT
W2021-0093**

Status: Issued
Expiration Date: 6/18/2022
Site Location: B1-B4 Pennsylvania Avenue
SWEEPS #:
APN(s): 0032010390

Boring Type					
<u>Number</u>	<u>Type</u>	<u>Method</u>	<u>Depth</u>	<u>Width</u>	<u>Material</u>
4	Environmental	Pneumatic or Direct Push	15	2	Neat Cement

Project Description: 4 environmental, direct push (depth 15 ft, diameter 2in) borings on parcels 0032010390 and 0032020100 located off of Pennsylvania Avenue.

Property Owner:
Tom Gentry California Company
P.O. Box 295
Honolulu, HI 96809

Well Owner:

Well Driller:
TEG-Northern California, Inc
11350 Monier Park Place
Rancho Cordova, CA 95742

Consultant:
Brusca Associates
P.O. Box 332
Roseville, CA 95661

Applicant shall submit a report of finding to Environmental Health Services Division within sixty days after completion of field work

NON TRANSFERABLE

THIS PERMIT IS ISSUED SUBJECT TO ALL STATE LAWS AND ORDINANCES IN THE COUNTY OF SOLANO, STATE OF CALIFORNIA, AND IS REVOCABLE FOR VIOLATION AT ANY TIME. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE APPROVED APPLICATION.

Call (707) 784-6765 to schedule an inspection a minimum of 24 hours prior to conducting the field work.

APPENDIX B

Laboratory Reports and Chain-of-Custody Documentation



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

22 July 2021

Joe Brusca
Brusca Associates Inc.
PO Box 332
Roseville, CA 95661
RE: Pennsylvania Ave Property

Enclosed are the results of analyses for samples received by the laboratory on 07/15/21 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property

Project Number: 137-005

Project Manager: Joe Brusca

Reported:

07/22/21 09:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-W	T212245-01	Water	07/14/21 00:00	07/15/21 09:30
B2-W	T212245-02	Water	07/14/21 00:00	07/15/21 09:30
B3-W	T212245-03	Water	07/14/21 00:00	07/15/21 09:30
B4-W	T212245-04	Water	07/14/21 00:00	07/15/21 09:30

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

DETECTIONS SUMMARY

Sample ID: B1-W

Laboratory ID: T212245-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	450	20		ug/l	6020 ICP-MS	R-07
Cobalt	110	20		ug/l	6020 ICP-MS	R-07
Molybdenum	24	20		ug/l	6020 ICP-MS	R-07
Nickel	50	20		ug/l	6020 ICP-MS	R-07
Zinc	260	20		ug/l	6020 ICP-MS	R-07

Sample ID: B2-W

Laboratory ID: T212245-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	770	20		ug/l	6020 ICP-MS	R-07
Cobalt	210	20		ug/l	6020 ICP-MS	R-07
Molybdenum	21	20		ug/l	6020 ICP-MS	R-07
Nickel	120	20		ug/l	6020 ICP-MS	R-07
Zinc	240	20		ug/l	6020 ICP-MS	R-07

Sample ID: B3-W

Laboratory ID: T212245-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
1,1-Dichloroethane	1.0	1.0		ug/l	EPA 8260B	
1,1-Dichloroethene	5.5	1.0		ug/l	EPA 8260B	

Sample ID: B4-W

Laboratory ID: T212245-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
1,1-Dichloroethene	1.9	1.0		ug/l	EPA 8260B	

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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B1-W
T212245-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	0.050	mg/l	1	1071531	07/15/21	07/16/21	EPA 8015B	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		70.0 %	65-135		"	"	"	"	

Metals (Dissolved) by EPA 6020 Method

Antimony	ND	20	ug/l	20	1071912	07/19/21	07/21/21	6020 ICP-MS	R-07
Arsenic	ND	20	"	"	"	"	"	"	R-07
Barium	450	20	"	"	"	"	"	"	R-07
Beryllium	ND	20	"	"	"	"	"	"	R-07
Cadmium	ND	20	"	"	"	"	"	"	R-07
Chromium	ND	20	"	"	"	"	"	"	R-07
Cobalt	110	20	"	"	"	"	"	"	R-07
Copper	ND	20	"	"	"	"	"	"	R-07
Lead	ND	40	"	"	"	"	"	"	R-07
Mercury	ND	0.10	"	1	"	"	"	"	
Molybdenum	24	20	"	20	"	"	"	"	R-07
Nickel	50	20	"	"	"	"	"	"	R-07
Selenium	ND	100	"	"	"	"	"	"	R-07
Silver	ND	20	"	"	"	"	"	"	R-07
Thallium	ND	20	"	"	"	"	"	"	R-07
Vanadium	ND	20	"	"	"	"	"	"	R-07
Zinc	260	20	"	"	"	"	"	"	R-07

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	2.00	ug/l	1	1071527	07/15/21	07/19/21	EPA 8082	
PCB-1221	ND	2.00	"	"	"	"	"	"	
PCB-1232	ND	2.00	"	"	"	"	"	"	
PCB-1242	ND	2.00	"	"	"	"	"	"	
PCB-1248	ND	2.00	"	"	"	"	"	"	
PCB-1254	ND	2.00	"	"	"	"	"	"	
PCB-1260	ND	2.00	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		83.9 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

B1-W
T212245-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Surrogate: Decachlorobiphenyl	97.0 %	35-140	1071527	07/15/21	07/19/21	EPA 8082
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

B1-W
T212245-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

2,2-Dichloropropane	ND	1.0	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		76.7-116		"	"	"	"
Surrogate: Dibromofluoromethane		88.0 %		49.2-135		"	"	"	"
Surrogate: Toluene-d8		96.1 %		84.7-108		"	"	"	"

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

B1-W
T212245-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	10	ug/l	1	1071526	07/15/21	07/19/21	EPA 8270C	
Phenol	ND	10	"	"	"	"	"	"	
Aniline	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
Acenaphthylene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1-Methylnaphthalene	ND	10	"	"	"	"	"	"	
2-Methylnaphthalene	ND	20	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	20	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	50	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	20	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	20	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

B1-W

T212245-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Chrysene	ND	10	ug/l	1	1071526	07/15/21	07/19/21	EPA 8270C
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"
Dibenzofuran	ND	20	"	"	"	"	"	"
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"
Diethyl phthalate	ND	10	"	"	"	"	"	"
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"
Dimethyl phthalate	ND	10	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	5.0	"	"	"	"	"	"
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	20	"	"	"	"	"	"
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"
Fluoranthene	ND	5.0	"	"	"	"	"	"
Fluorene	ND	10	"	"	"	"	"	"
Hexachlorobenzene	ND	20	"	"	"	"	"	"
Hexachlorobutadiene	ND	10	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	20	"	"	"	"	"	"
Hexachloroethane	ND	5.0	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"
Isophorone	ND	10	"	"	"	"	"	"
2-Methylphenol	ND	10	"	"	"	"	"	"
4-Methylphenol	ND	20	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"
2-Nitroaniline	ND	10	"	"	"	"	"	"
3-Nitroaniline	ND	10	"	"	"	"	"	"
4-Nitroaniline	ND	20	"	"	"	"	"	"
Nitrobenzene	ND	20	"	"	"	"	"	"
2-Nitrophenol	ND	10	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	25	"	"	"	"	"	"

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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B1-W
T212245-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Phenanthrene	ND	10	ug/l	1	1071526	07/15/21	07/19/21	EPA 8270C	
2,4,5-Trichlorophenol	ND	20	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dinitrobenzene	ND	10	"	"	"	"	"	"	
Pyridine	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		3.25 %	15-121		"	"	"	"	S-GC
Surrogate: Phenol-d6		2.31 %	24-113		"	"	"	"	S-GC
Surrogate: Nitrobenzene-d5		66.9 %	14.7-110		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.9 %	33.3-110		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		7.12 %	12.9-110		"	"	"	"	S-GC
Surrogate: Terphenyl-d14		78.2 %	15.8-136		"	"	"	"	

SunStar Laboratories, Inc.

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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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B2-W
T212245-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	0.050	mg/l	1	1071531	07/15/21	07/16/21	EPA 8015B	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		64.0 %	65-135		"	"	"	"	S-13

Metals (Dissolved) by EPA 6020 Method

Antimony	ND	20	ug/l	20	1071912	07/19/21	07/21/21	6020 ICP-MS	R-07
Arsenic	ND	20	"	"	"	"	"	"	R-07
Barium	770	20	"	"	"	"	"	"	R-07
Beryllium	ND	20	"	"	"	"	"	"	R-07
Cadmium	ND	20	"	"	"	"	"	"	R-07
Chromium	ND	20	"	"	"	"	"	"	R-07
Cobalt	210	20	"	"	"	"	"	"	R-07
Copper	ND	20	"	"	"	"	"	"	R-07
Lead	ND	40	"	"	"	"	"	"	R-07
Mercury	ND	0.10	"	1	"	"	"	"	
Molybdenum	21	20	"	20	"	"	"	"	R-07
Nickel	120	20	"	"	"	"	"	"	R-07
Selenium	ND	100	"	"	"	"	"	"	R-07
Silver	ND	20	"	"	"	"	"	"	R-07
Thallium	ND	20	"	"	"	"	"	"	R-07
Vanadium	ND	20	"	"	"	"	"	"	R-07
Zinc	240	20	"	"	"	"	"	"	R-07

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	2.00	ug/l	1	1071527	07/15/21	07/19/21	EPA 8082	
PCB-1221	ND	2.00	"	"	"	"	"	"	
PCB-1232	ND	2.00	"	"	"	"	"	"	
PCB-1242	ND	2.00	"	"	"	"	"	"	
PCB-1248	ND	2.00	"	"	"	"	"	"	
PCB-1254	ND	2.00	"	"	"	"	"	"	
PCB-1260	ND	2.00	"	"	"	"	"	"	
Surrogate: Tetrachloro- <i>meta</i> -xylene		85.0 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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B2-W
T212245-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Surrogate: Decachlorobiphenyl	85.6 %	35-140	1071527	07/15/21	07/19/21	EPA 8082
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Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

B2-W
T212245-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

2,2-Dichloropropane	ND	1.0	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	76.7-116		"	"	"	"	
Surrogate: Dibromofluoromethane		88.7 %	49.2-135		"	"	"	"	
Surrogate: Toluene-d8		96.0 %	84.7-108		"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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B2-W
T212245-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	10	ug/l	1	1071526	07/15/21	07/19/21	EPA 8270C	
Phenol	ND	10	"	"	"	"	"	"	
Aniline	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
Acenaphthylene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1-Methylnaphthalene	ND	10	"	"	"	"	"	"	
2-Methylnaphthalene	ND	20	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	10	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	20	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	50	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	20	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	20	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

B2-W
T212245-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Chrysene	ND	10	ug/l	1	1071526	07/15/21	07/19/21	EPA 8270C	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	20	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	20	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Hexachlorobenzene	ND	20	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	20	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
4-Methylphenol	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	20	"	"	"	"	"	"	
Nitrobenzene	ND	20	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	25	"	"	"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

B2-W

T212245-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Phenanthrene	ND	10	ug/l	1	1071526	07/15/21	07/19/21	EPA 8270C	
2,4,5-Trichlorophenol	ND	20	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dinitrobenzene	ND	10	"	"	"	"	"	"	
Pyridine	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		2.27 %	15-121		"	"	"	"	S-GC
Surrogate: Phenol-d6		3.22 %	24-113		"	"	"	"	S-GC
Surrogate: Nitrobenzene-d5		58.6 %	14.7-110		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		67.3 %	33.3-110		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		5.43 %	12.9-110		"	"	"	"	S-GC
Surrogate: Terphenyl-d14		79.0 %	15.8-136		"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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B3-W
T212245-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	1.0	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	5.5	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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B3-W
T212245-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	76.7-116		"	"	"	"	
Surrogate: Dibromofluoromethane		88.3 %	49.2-135		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	84.7-108		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

B4-W

T212245-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromobenzene	ND	1.0	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	1.9	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Brusca Associates Inc.
 PO Box 332
 Roseville CA, 95661

Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

B4-W
T212245-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	1071528	07/14/21	07/15/21	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	76.7-116		"	"	"	"	
Surrogate: Dibromofluoromethane		88.4 %	49.2-135		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	84.7-108		"	"	"	"	

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 07/22/21 09:22
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Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071531 - EPA 3510C GC

Blank (1071531-BLK1)

Prepared: 07/15/21 Analyzed: 07/16/21

C6-C12 (GRO)	ND	0.050	mg/l							
C13-C28 (DRO)	ND	0.050	"							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: <i>p</i> -Terphenyl	91.8		"	100		91.8	65-135			

LCS (1071531-BS1)

Prepared: 07/15/21 Analyzed: 07/16/21

C13-C28 (DRO)	8.89	0.050	mg/l	10.0		88.9	75-125			
Surrogate: <i>p</i> -Terphenyl	80.5		"	100		80.5	65-135			

LCS Dup (1071531-BSD1)

Prepared: 07/15/21 Analyzed: 07/16/21

C13-C28 (DRO)	9.36	0.050	mg/l	10.0		93.6	75-125	5.07	20	
Surrogate: <i>p</i> -Terphenyl	85.6		"	100		85.6	65-135			

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Metals (Dissolved) by EPA 6020 Method - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071912 - EPA 3010A

Blank (1071912-BLK1)

Prepared: 07/19/21 Analyzed: 07/21/21

Antimony	ND	1.0	ug/l							
Arsenic	ND	1.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	1.0	"							
Chromium	ND	1.0	"							
Cobalt	ND	1.0	"							
Copper	ND	1.0	"							
Lead	ND	2.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Selenium	ND	5.0	"							
Silver	ND	1.0	"							
Thallium	ND	1.0	"							
Vanadium	ND	1.0	"							
Zinc	ND	1.0	"							

LCS (1071912-BS1)

Prepared: 07/19/21 Analyzed: 07/21/21

Arsenic	44.7	1.0	ug/l	50.0		89.4	80-120			
Barium	51.0	1.0	"	50.0		102	80-120			
Cadmium	46.9	1.0	"	50.0		93.8	80-120			
Chromium	51.2	1.0	"	50.0		102	80-120			
Lead	50.9	2.0	"	50.0		102	80-120			
Silver	45.6	1.0	"	50.0		91.2	80-120			

Matrix Spike (1071912-MS1)

Source: T212245-01

Prepared: 07/19/21 Analyzed: 07/21/21

Arsenic	49.2	20	ug/l	50.0	ND	98.4	75-125			R-07
Barium	302	20	"	50.0	445	NR	75-125			QM-PS, R-07
Cadmium	42.8	20	"	50.0	ND	85.6	75-125			R-07
Chromium	56.4	20	"	50.0	2.40	108	75-125			R-07
Lead	54.8	40	"	50.0	ND	110	75-125			R-07
Silver	45.2	20	"	50.0	ND	90.4	75-125			R-07

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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

Metals (Dissolved) by EPA 6020 Method - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071912 - EPA 3010A

Matrix Spike Dup (1071912-MSD1)

Source: T212245-01

Prepared: 07/19/21 Analyzed: 07/21/21

Arsenic	56.4	20	ug/l	50.0	ND	113	75-125	13.6	20	R-07
Barium	289	20	"	50.0	445	NR	75-125	4.60	20	QM-PS, R-07
Cadmium	41.6	20	"	50.0	ND	83.2	75-125	2.84	20	R-07
Chromium	60.0	20	"	50.0	2.40	115	75-125	6.19	20	R-07
Lead	56.4	40	"	50.0	ND	113	75-125	2.88	20	R-07
Silver	47.2	20	"	50.0	ND	94.4	75-125	4.33	20	R-07

Post Spike (1071912-PS1)

Source: T212245-01

Prepared: 07/19/21 Analyzed: 07/21/21

Arsenic	30.6		ug/l	25.0	2.00	114	80-120			R-07
Barium	247		"	25.0	223	98.4	80-120			R-07
Cadmium	23.4		"	25.0	-1.20	93.6	80-120			R-07
Chromium	30.0		"	25.0	1.20	115	80-120			R-07
Lead	30.4		"	25.0	0.600	119	80-120			R-07
Silver	23.8		"	25.0	1.20	90.4	0-200			R-07

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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071527 - EPA 3510C GCMS/ECD

Blank (1071527-BLK1)

Prepared: 07/15/21 Analyzed: 07/19/21

PCB-1016	ND	2.00	ug/l							
PCB-1221	ND	2.00	"							
PCB-1232	ND	2.00	"							
PCB-1242	ND	2.00	"							
PCB-1248	ND	2.00	"							
PCB-1254	ND	2.00	"							
PCB-1260	ND	2.00	"							
Surrogate: Tetrachloro-meta-xylene	0.803		"	1.00		80.3	35-140			
Surrogate: Decachlorobiphenyl	0.907		"	1.00		90.7	35-140			

LCS (1071527-BS1)

Prepared: 07/15/21 Analyzed: 07/19/21

PCB-1016	7.36	2.00	ug/l	10.0		73.6	40-130			
PCB-1260	9.08	2.00	"	10.0		90.8	40-130			
Surrogate: Tetrachloro-meta-xylene	0.824		"	1.00		82.4	35-140			
Surrogate: Decachlorobiphenyl	0.951		"	1.00		95.1	35-140			

LCS Dup (1071527-BSD1)

Prepared: 07/15/21 Analyzed: 07/19/21

PCB-1016	9.20	2.00	ug/l	10.0		92.0	40-130	22.2	30	
PCB-1260	8.91	2.00	"	10.0		89.1	40-130	1.89	30	
Surrogate: Tetrachloro-meta-xylene	1.02		"	1.00		102	35-140			
Surrogate: Decachlorobiphenyl	0.914		"	1.00		91.4	35-140			

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Reported:
 07/22/21 09:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071528 - EPA 5030 GCMS

Blank (1071528-BLK1)

Prepared & Analyzed: 07/15/21

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

SunStar Laboratories, Inc.

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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071528 - EPA 5030 GCMS

Blank (1071528-BLK1)

Prepared & Analyzed: 07/15/21

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	0.50	"							
Surrogate: 4-Bromofluorobenzene	20.7		"	20.0		103	76.7-116			
Surrogate: Dibromofluoromethane	17.9		"	20.0		89.7	49.2-135			
Surrogate: Toluene-d8	19.4		"	20.0		97.2	84.7-108			

LCS (1071528-BS1)

Prepared & Analyzed: 07/15/21

Chlorobenzene	19.8	1.0	ug/l	20.0		98.8	81.1-121			
1,1-Dichloroethene	17.9	1.0	"	20.0		89.4	69.9-130			
Trichloroethene	20.4	1.0	"	20.0		102	84.9-120			
Benzene	19.4	0.50	"	20.0		97.2	78.1-123			
Toluene	18.8	0.50	"	20.0		94.2	79.6-123			
Surrogate: 4-Bromofluorobenzene	21.3		"	20.0		106	76.7-116			
Surrogate: Dibromofluoromethane	17.8		"	20.0		88.8	49.2-135			
Surrogate: Toluene-d8	19.5		"	20.0		97.3	84.7-108			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071528 - EPA 5030 GCMS

LCS Dup (1071528-BSD1)

Prepared & Analyzed: 07/15/21

Chlorobenzene	19.6	1.0	ug/l	20.0		98.2	81.1-121	0.508	20	
1,1-Dichloroethene	17.4	1.0	"	20.0		86.8	69.9-130	3.06	20	
Trichloroethene	20.2	1.0	"	20.0		101	84.9-120	0.888	20	
Benzene	18.9	0.50	"	20.0		94.6	78.1-123	2.66	20	
Toluene	18.4	0.50	"	20.0		91.8	79.6-123	2.53	20	
Surrogate: 4-Bromofluorobenzene	21.3		"	20.0		106	76.7-116			
Surrogate: Dibromofluoromethane	17.6		"	20.0		87.8	49.2-135			
Surrogate: Toluene-d8	19.3		"	20.0		96.3	84.7-108			

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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071526 - EPA 3510C GCMS/ECD

Blank (1071526-BLK1)

Prepared: 07/15/21 Analyzed: 07/19/21

Carbazole	ND	10	ug/l							
Aniline	ND	10	"							
Phenol	ND	10	"							
2-Chlorophenol	ND	10	"							
Acenaphthylene	ND	10	"							
1,4-Dichlorobenzene	ND	10	"							
Anthracene	ND	10	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
2-Methylnaphthalene	ND	20	"							
4-Chloro-3-methylphenol	ND	10	"							
1-Methylnaphthalene	ND	10	"							
Benzo (a) anthracene	ND	10	"							
Acenaphthene	ND	10	"							
Benzo (b) fluoranthene	ND	10	"							
4-Nitrophenol	ND	10	"							
Benzo (k) fluoranthene	ND	10	"							
2,4-Dinitrotoluene	ND	10	"							
Benzo (g,h,i) perylene	ND	20	"							
Pentachlorophenol	ND	10	"							
Benzo (a) pyrene	ND	10	"							
Pyrene	ND	10	"							
Benzyl alcohol	ND	50	"							
Bis(2-chloroethoxy)methane	ND	10	"							
Bis(2-chloroethyl)ether	ND	5.0	"							
Bis(2-chloroisopropyl)ether	ND	20	"							
Bis(2-ethylhexyl)phthalate	ND	10	"							
4-Bromophenyl phenyl ether	ND	5.0	"							
Butyl benzyl phthalate	ND	10	"							
4-Chloroaniline	ND	20	"							
2-Chloronaphthalene	ND	10	"							
4-Chlorophenyl phenyl ether	ND	20	"							
Chrysene	ND	10	"							
Dibenz (a,h) anthracene	ND	10	"							
Dibenzofuran	ND	20	"							
Di-n-butyl phthalate	ND	5.0	"							

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Mike Jaroudi, Project Manager



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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071526 - EPA 3510C GCMS/ECD

Blank (1071526-BLK1)

Prepared: 07/15/21 Analyzed: 07/19/21

1,2-Dichlorobenzene	ND	5.0	ug/l							
1,3-Dichlorobenzene	ND	5.0	"							
2,4-Dichlorophenol	ND	10	"							
Diethyl phthalate	ND	10	"							
2,4-Dimethylphenol	ND	5.0	"							
Dimethyl phthalate	ND	10	"							
4,6-Dinitro-2-methylphenol	ND	5.0	"							
2,4-Dinitrophenol	ND	10	"							
2,6-Dinitrotoluene	ND	20	"							
Di-n-octyl phthalate	ND	10	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	10	"							
Hexachlorobenzene	ND	20	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	20	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	10	"							
2-Methylphenol	ND	10	"							
4-Methylphenol	ND	20	"							
Naphthalene	ND	5.0	"							
2-Nitroaniline	ND	10	"							
3-Nitroaniline	ND	10	"							
4-Nitroaniline	ND	20	"							
Nitrobenzene	ND	20	"							
2-Nitrophenol	ND	10	"							
N-Nitrosodiphenylamine	ND	10	"							
N-Nitrosodimethylamine	ND	25	"							
Phenanthrene	ND	10	"							
2,4,5-Trichlorophenol	ND	20	"							
2,4,6-Trichlorophenol	ND	10	"							
2,3,4,6-Tetrachlorophenol	ND	10	"							
2,3,5,6-Tetrachlorophenol	ND	10	"							
1,4-Dinitrobenzene	ND	10	"							
Pyridine	ND	10	"							

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Brusca Associates Inc.
 PO Box 332
 Roseville CA, 95661

Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071526 - EPA 3510C GCMS/ECD

Blank (1071526-BLK1)

Prepared: 07/15/21 Analyzed: 07/19/21

Surrogate: 2-Fluorophenol	102		ug/l	200		50.8	15-121			
Surrogate: Phenol-d6	77.8		"	200		38.9	24-113			
Surrogate: Nitrobenzene-d5	115		"	200		57.3	14.7-110			
Surrogate: 2-Fluorobiphenyl	144		"	200		72.0	33.3-110			
Surrogate: 2,4,6-Tribromophenol	210		"	200		105	12.9-110			
Surrogate: Terphenyl-d14	202		"	200		101	15.8-136			

LCS (1071526-BS1)

Prepared: 07/15/21 Analyzed: 07/19/21

Phenol	88.9	10	ug/l	200		44.4	12-89			
2-Chlorophenol	144	10	"	200		72.2	40-120			
1,4-Dichlorobenzene	125	10	"	200		62.6	33-94			
N-Nitrosodi-n-propylamine	128	5.0	"	200		64.0	40-120			
1,2,4-Trichlorobenzene	134	5.0	"	200		66.9	40-120			
4-Chloro-3-methylphenol	164	10	"	200		82.0	50-130			
Acenaphthene	137	10	"	200		68.5	50-130			
4-Nitrophenol	96.6	10	"	200		48.3	10-80			
2,4-Dinitrotoluene	175	10	"	200		87.7	55.9-117			
Pentachlorophenol	180	10	"	200		89.8	50-130			
Pyrene	115	10	"	200		57.5	26-127			
Surrogate: 2-Fluorophenol	108		"	200		54.2	15-121			
Surrogate: Phenol-d6	81.8		"	200		40.9	24-113			
Surrogate: Nitrobenzene-d5	122		"	200		61.0	14.7-110			
Surrogate: 2-Fluorobiphenyl	115		"	200		57.7	33.3-110			
Surrogate: 2,4,6-Tribromophenol	172		"	200		86.0	12.9-110			
Surrogate: Terphenyl-d14	201		"	200		101	15.8-136			

LCS Dup (1071526-BSD1)

Prepared: 07/15/21 Analyzed: 07/19/21

Phenol	92.4	10	ug/l	200		46.2	12-89	3.86	42	
2-Chlorophenol	151	10	"	200		75.3	40-120	4.20	40	
1,4-Dichlorobenzene	134	10	"	200		67.1	33-94	6.99	28	
N-Nitrosodi-n-propylamine	141	5.0	"	200		70.4	40-120	9.40	38	
1,2,4-Trichlorobenzene	141	5.0	"	200		70.7	40-120	5.54	28	
4-Chloro-3-methylphenol	158	10	"	200		79.1	50-130	3.55	42	
Acenaphthene	134	10	"	200		66.9	50-130	2.38	31	
4-Nitrophenol	97.1	10	"	200		48.6	10-80	0.578	50	
2,4-Dinitrotoluene	174	10	"	200		87.1	55.9-117	0.618	30	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
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Brusca Associates Inc.
 PO Box 332
 Roseville CA, 95661

Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 07/22/21 09:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1071526 - EPA 3510C GCMS/ECD

LCS Dup (1071526-BSD1)

Prepared: 07/15/21 Analyzed: 07/19/21

Pentachlorophenol	179	10	ug/l	200		89.6	50-130	0.256	50	
Pyrene	114	10	"	200		57.0	26-127	0.821	31	
Surrogate: 2-Fluorophenol	117		"	200		58.7	15-121			
Surrogate: Phenol-d6	87.5		"	200		43.7	24-113			
Surrogate: Nitrobenzene-d5	120		"	200		60.2	14.7-110			
Surrogate: 2-Fluorobiphenyl	119		"	200		59.6	33.3-110			
Surrogate: 2,4,6-Tribromophenol	176		"	200		88.0	12.9-110			
Surrogate: Terphenyl-d14	205		"	200		102	15.8-136			

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
07/22/21 09:22

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-13 Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of surrogates in client samples and remaining QC including CCV.
- R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
- QM-PS The percent recovery and/or RPD are outside acceptance criteria. Results accepted based upon percent recovery results in the post spike and/or serial dilution.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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04 August 2021

Joe Brusca
Brusca Associates Inc.
PO Box 332
Roseville, CA 95661
RE: Pennsylvania Ave Property

Enclosed are the results of analyses for samples received by the laboratory on 07/15/21 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG1	T212249-01	Air	07/14/21 12:53	07/15/21 09:30
SG2	T212249-02	Air	07/14/21 13:16	07/15/21 09:30
SG3	T212249-03	Air	07/14/21 13:31	07/15/21 09:30
SG4	T212249-04	Air	07/14/21 13:43	07/15/21 09:30

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

DETECTIONS SUMMARY

Sample ID: SG1

Laboratory ID: T212249-01

Analyte	Result	Reporting		Method	Notes
		Limit	Units		
Acetone	100	12	ug/m ³ Air	TO-15	
Carbon Disulfide	5.1	3.2	ug/m ³ Air	TO-15	
Chloroform	13	5.0	ug/m ³ Air	TO-15	
Heptane	5.8	4.2	ug/m ³ Air	TO-15	
Hexane	8.3	3.6	ug/m ³ Air	TO-15	
Tetrachloroethene	21	6.9	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	17	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	33	15	ug/m ³ Air	TO-15	
Benzene	4.1	3.3	ug/m ³ Air	TO-15	
Toluene	30	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	8.6	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	34	8.8	ug/m ³ Air	TO-15	
o-Xylene	12	4.4	ug/m ³ Air	TO-15	
Oxygen	20.9	1.82	%	GC	
Nitrogen	78.4	30.0	%	GC	

Sample ID: SG2

Laboratory ID: T212249-02

Analyte	Result	Reporting		Method	Notes
		Limit	Units		
Acetone	400	12	ug/m ³ Air	TO-15	
Cyclohexane	5.1	3.5	ug/m ³ Air	TO-15	
Heptane	5.5	4.2	ug/m ³ Air	TO-15	
Hexane	71	3.6	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	9.3	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	28	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	230	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	47	42	ug/m ³ Air	TO-15	
Toluene	120	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	7.5	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	27	8.8	ug/m ³ Air	TO-15	
o-Xylene	9.8	4.4	ug/m ³ Air	TO-15	
Oxygen	19.4	1.79	%	GC	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

Sample ID: SG2

Laboratory ID: T212249-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Nitrogen	77.7	30.0	%	GC	

Sample ID: SG3

Laboratory ID: T212249-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	710	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	40	13	ug/m ³ Air	TO-15	
Hexane	6.2	3.6	ug/m ³ Air	TO-15	
Tetrahydrofuran	6.2	3.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	14	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	230	15	ug/m ³ Air	TO-15	
Benzene	3.9	3.3	ug/m ³ Air	TO-15	
Toluene	16	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	4.9	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	18	8.8	ug/m ³ Air	TO-15	
o-Xylene	7.4	4.4	ug/m ³ Air	TO-15	

Sample ID: SG4

Laboratory ID: T212249-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	820	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	38	13	ug/m ³ Air	TO-15	
Chloroform	5.2	5.0	ug/m ³ Air	TO-15	
Hexane	5.4	3.6	ug/m ³ Air	TO-15	
Styrene	9.8	4.3	ug/m ³ Air	TO-15	
Tetrachloroethene	110	6.9	ug/m ³ Air	TO-15	
Trichloroethene	16	5.5	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	15	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	390	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	46	42	ug/m ³ Air	TO-15	
Benzene	9.4	3.3	ug/m ³ Air	TO-15	
Toluene	62	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	13	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	26	8.8	ug/m ³ Air	TO-15	
o-Xylene	9.9	4.4	ug/m ³ Air	TO-15	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

SG1
T212249-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	100	12	ug/m ³ Air	1.82	1072243	07/22/21	07/22/21	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	5.1	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	13	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	5.8	4.2	"	"	"	"	"	"	
Hexane	8.3	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

SG1
T212249-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.82	1072243	07/22/21	07/22/21	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	17	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	33	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	4.1	3.3	"	"	"	"	"	"	
Toluene	30	3.8	"	"	"	"	"	"	
Ethylbenzene	8.6	4.4	"	"	"	"	"	"	
m,p-Xylene	34	8.8	"	"	"	"	"	"	
o-Xylene	12	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	59.2-130		"	"	"	"	

Fixed Gases ASTM D1946-90

Carbon Dioxide	ND	1.82	%	1.82	1072040	07/20/21	07/21/21	GC	
Oxygen	20.9	1.82	"	"	"	"	"	"	
Nitrogen	78.4	30.0	"	1	"	"	"	"	
Methane	ND	1.82	"	1.82	"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

SG2
T212249-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	400	12	ug/m ³ Air	1.79	1072243	07/22/21	07/22/21	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	5.1	3.5	"	"	"	"	"	"	
Heptane	5.5	4.2	"	"	"	"	"	"	
Hexane	71	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	27	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

SG2
T212249-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	ND	4.3	ug/m ³ Air	1.79	1072243	07/22/21	07/22/21	TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	9.3	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	28	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	230	15	"	"	"	"	"	"	
Methyl isobutyl ketone	47	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	120	3.8	"	"	"	"	"	"	
Ethylbenzene	7.5	4.4	"	"	"	"	"	"	
m,p-Xylene	27	8.8	"	"	"	"	"	"	
o-Xylene	9.8	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %		59.2-130	"	"	"	"	

Fixed Gases ASTM D1946-90

Carbon Dioxide	ND	1.79	%	1.79	1072040	07/20/21	07/21/21	GC	
Oxygen	19.4	1.79	"	"	"	"	"	"	
Nitrogen	77.7	30.0	"	1	"	"	"	"	
Methane	ND	1.79	"	1.79	"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

SG3

T212249-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	710	12	ug/m ³ Air	9.45	1072243	07/22/21	07/22/21	TO-15	
1,3-Butadiene	ND	4.5	"	1.89	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	40	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	6.2	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 08/04/21 08:07
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SG3
T212249-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.89	1072243	07/22/21	07/22/21	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	6.2	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	14	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	230	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	3.9	3.3	"	"	"	"	"	"	
Toluene	16	3.8	"	"	"	"	"	"	
Ethylbenzene	4.9	4.4	"	"	"	"	"	"	
m,p-Xylene	18	8.8	"	"	"	"	"	"	
o-Xylene	7.4	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

SG4
T212249-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	820	12	ug/m ³ Air	9.3	1072243	07/22/21	07/22/21	TO-15	
1,3-Butadiene	ND	4.5	"	1.86	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	38	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	5.2	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	5.4	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	27	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 08/04/21 08:07
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SG4
T212249-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	9.8	4.3	ug/m ³ Air	1.86	1072243	07/22/21	07/22/21	TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	110	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	16	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	15	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	390	15	"	"	"	"	"	"	
Methyl isobutyl ketone	46	42	"	"	"	"	"	"	
Benzene	9.4	3.3	"	"	"	"	"	"	
Toluene	62	3.8	"	"	"	"	"	"	
Ethylbenzene	13	4.4	"	"	"	"	"	"	
m,p-Xylene	26	8.8	"	"	"	"	"	"	
o-Xylene	9.9	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %		59.2-130	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 08/04/21 08:07
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TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1072243 - Canister Analysis

Blank (1072243-BLK1)

Prepared & Analyzed: 07/22/21

Acetone	ND	12	ug/m ³ Air							
1,3-Butadiene	ND	4.5	"							
Carbon Disulfide	ND	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"							
Isopropyl alcohol	ND	13	"							
Bromodichloromethane	ND	6.8	"							
Bromoform	ND	11	"							
Bromomethane	ND	20	"							
Carbon tetrachloride	ND	6.4	"							
Chlorobenzene	ND	4.7	"							
Chloroethane	ND	2.7	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	11	"							
Cyclohexane	ND	3.5	"							
Heptane	ND	4.2	"							
Hexane	ND	3.6	"							
Dibromochloromethane	ND	8.7	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,2-Dichlorobenzene	ND	31	"							
1,3-Dichlorobenzene	ND	31	"							
1,4-Dichlorobenzene	ND	31	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	4.1	"							
1,2-Dichloroethane	ND	4.1	"							
1,1-Dichloroethene	ND	4.0	"							
cis-1,2-Dichloroethene	ND	4.0	"							
trans-1,2-Dichloroethene	ND	4.0	"							
1,2-Dichloropropane	ND	4.7	"							
cis-1,3-Dichloropropene	ND	4.6	"							
trans-1,3-Dichloropropene	ND	4.6	"							
4-Ethyltoluene	ND	5.0	"							
Methylene chloride	ND	27	"							
Styrene	ND	4.3	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
Tetrahydrofuran	ND	3.0	"							

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 08/04/21 08:07
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TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1072243 - Canister Analysis

Blank (1072243-BLK1)

Prepared & Analyzed: 07/22/21

Tetrachloroethene	ND	6.9	ug/m ³ Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
1,1-Difluoroethane (Freon 152)	ND	27	"							
<i>Surrogate: 4-Bromofluorobenzene</i>	343		"	362		94.7	59.2-130			

Duplicate (1072243-DUP1)

Source: T212249-01

Prepared & Analyzed: 07/22/21

Acetone	101	12	ug/m ³ Air	100			0.916	30		
1,3-Butadiene	ND	4.5	"	ND				30		
Carbon Disulfide	5.35	3.2	"	5.06			5.52	30		
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	ND				30		
Isopropyl alcohol	4.10	13	"	3.91			4.55	30		
Bromodichloromethane	ND	6.8	"	ND				30		
Bromoform	ND	11	"	ND				30		
Bromomethane	ND	20	"	ND				30		
Carbon tetrachloride	ND	6.4	"	ND				30		
Chlorobenzene	ND	4.7	"	ND				30		
Chloroethane	ND	2.7	"	ND				30		
Chloroform	13.8	5.0	"	13.3			4.00	30		
Chloromethane	ND	11	"	ND				30		
Cyclohexane	ND	3.5	"	ND				30		

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 08/04/21 08:07

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1072243 - Canister Analysis

Duplicate (1072243-DUP1)

Source: T212249-01

Prepared & Analyzed: 07/22/21

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptane	ND	4.2	ug/m ³ Air		5.84				30	
Hexane	7.83	3.6	"		8.35			6.45	30	
Dibromochloromethane	ND	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	31	"		ND				30	
1,3-Dichlorobenzene	ND	31	"		ND				30	
1,4-Dichlorobenzene	ND	31	"		ND				30	
Dichlorodifluoromethane	ND	5.0	"		ND				30	
1,1-Dichloroethane	ND	4.1	"		ND				30	
1,2-Dichloroethane	ND	4.1	"		ND				30	
1,1-Dichloroethene	ND	4.0	"		ND				30	
cis-1,2-Dichloroethene	ND	4.0	"		ND				30	
trans-1,2-Dichloroethene	ND	4.0	"		ND				30	
1,2-Dichloropropane	ND	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	4.6	"		ND				30	
4-Ethyltoluene	ND	5.0	"		ND				30	
Methylene chloride	ND	27	"		ND				30	
Styrene	ND	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	7.0	"		ND				30	
Tetrahydrofuran	ND	3.0	"		ND				30	
Tetrachloroethene	22.1	6.9	"		21.5			2.88	30	
1,1,2-Trichloroethane	ND	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	5.6	"		ND				30	
Trichloroethene	ND	5.5	"		ND				30	
Trichlorofluoromethane	ND	5.7	"		ND				30	
1,3,5-Trimethylbenzene	ND	5.0	"		ND				30	
1,2,4-Trimethylbenzene	17.1	5.0	"		17.2			0.530	30	
Vinyl acetate	ND	3.6	"		ND				30	
Vinyl chloride	ND	2.6	"		ND				30	
1,4-Dioxane	ND	18	"		ND				30	
2-Butanone (MEK)	33.8	15	"		33.4			1.14	30	
Methyl isobutyl ketone	32.9	42	"		33.2			0.915	30	
Benzene	4.26	3.3	"		4.08			4.26	30	
Toluene	30.6	3.8	"		29.9			2.08	30	
Ethylbenzene	8.28	4.4	"		8.60			3.81	30	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Brusca Associates Inc. PO Box 332 Roseville CA, 95661	Project: Pennsylvania Ave Property Project Number: 137-005 Project Manager: Joe Brusca	Reported: 08/04/21 08:07
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TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1072243 - Canister Analysis

Duplicate (1072243-DUP1)	Source: T212249-01			Prepared & Analyzed: 07/22/21						
m,p-Xylene	32.6	8.8	ug/m ³ Air		33.5			2.67	30	
o-Xylene	12.4	4.4	"		12.5			0.647	30	
Surrogate: 4-Bromofluorobenzene	343		"	362		94.7	59.2-130			

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Pennsylvania Ave Property
 Project Number: 137-005
 Project Manager: Joe Brusca

Reported:
 08/04/21 08:07

Fixed Gases ASTM D1946-90 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1072040 - EPA 5030 GC

Blank (1072040-BLK1)

Prepared: 07/20/21 Analyzed: 07/21/21

Carbon Dioxide	ND	1.00	%							
Oxygen	ND	1.00	"							
Nitrogen	ND	30.0	"							
Methane	ND	1.00	"							

LCS (1072040-BS1)

Prepared: 07/20/21 Analyzed: 07/21/21

Carbon Dioxide	4.88	1.00	%	5.00		97.6	75-125			
Oxygen	14.7	1.00	"	15.0		97.7	75-125			
Nitrogen	80.2	30.0	"	80.0		100	75-125			

Duplicate (1072040-DUP1)

Source: T212249-01

Prepared: 07/20/21 Analyzed: 07/21/21

Carbon Dioxide	0.45	1.82	%		0.46			1.59	20	
Oxygen	20.6	1.82	"		20.9			1.54	20	
Nitrogen	77.1	30.0	"		78.4			1.64	20	
Methane	ND	1.82	"		ND				20	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi, Project Manager



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Brusca Associates Inc.
PO Box 332
Roseville CA, 95661

Project: Pennsylvania Ave Property
Project Number: 137-005
Project Manager: Joe Brusca

Reported:
08/04/21 08:07

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

