



October 28, 2016

Mr. Brian Cass
OHM Holdings, Inc.
W229 N2494 Hwy F
Waukesha, Wisconsin 53186

**RE: Investigation Progress Report
Success, Inc. One Hour Martinizing
2262 South 108th Street
West Allis, Wisconsin
FID # 241287530
BRRTS # 02-41-246246**

Dear Mr. Cass:

On July 28, 2016, Environmental Forensic Investigations, Inc. (EnviroForensics) performed additional investigative activities at the Success, Inc. property located at 2262 South 108th Street, West Allis, Wisconsin (Site). The additional investigations were outlined in our work scoping document titled: *Site Investigative Work Scope*, dated May 10, 2016. The investigations were focused on determining if concentrations of chlorinated volatile organic compounds (CVOCs) had migrated along the sanitary sewer lines and caused groundwater and or vapor impacts to neighboring properties. This report provides a summary of investigative findings and recommendations for further Site actions.

UTILITY CORRIDOR INVESTIGATIONS

Two (2) borings (DP-1 and DP-2) were advanced to the depth of the sanitary sewer main in the locations shown on Figure 1 in **Attachment 1** using a Geoprobe™ drilling rig. The depth of the sewer main was between 8-10 feet below ground surface (bgs) with the depth to groundwater expected at 9-10 feet bgs in the areas to be investigated. Soil gas samples were collected from a depth interval of 8-9 feet using a direct push post-run tubing (PRT) system. Immediately after collecting the soil gas samples, the tubing and screen were removed, and the bore hole enlarged and deepened for collection of a water sample from a 1-inch diameter temporary well equipped with a 5-foot slotted screen section.

Document: 6406-0169

Environmental Forensic Investigations, Inc.
N16 W23390 Stone Ridge Drive, Suite G, Waukesha, WI 53188
Phone: 262-290-4001 • Fax 317-972-7875

The results of soil gas and groundwater sampling are shown in Tables 1 and 2 in **Attachment 1**, respectively. The analytical results reports are included in **Attachment 2**.

As can be seen in Table 1, soil gas concentrations were well below the vapor risk screening levels (VRSLs) for these compounds along the sanitary main. However, the depth to water was higher than expected at 7.5 to 7.9 feet bgs, and the soil gas samples were collected from the saturated zone. Therefore the soil gas samples are not representative of the vapor concentrations within the unsaturated (vadose) zone. However, detections of CVOCs in groundwater are indicative that groundwater impacts have migrated in the direction of groundwater flow, or may be migrating preferentially along the backfill of the sanitary main.

As can be seen in Table 2, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in concentrations exceeding the groundwater enforcement standard (ES) at DP-1. At DP-2, PCE and vinyl chloride were detected in concentrations exceeding the ES. The concentrations are reduced significantly with distance from the source area (dry cleaners).

BASEMENT INVESTIGATIONS AT 2234 S. 108TH STREET

Sub-slab vapor samples were collected from Stefaniak Realty building at the locations shown on the hand-sketched figure in **Attachment 3**. In addition, a grab water sample was collected from the basement sump. As can be seen in Tables 1 and 2 of **Attachment 1**, there were no detections of CVOCs in either of the sub-slab vapor samples, or the water sample.

SUB-SLAB DEPRESSURIZATION SYSTEM COMMISSIONING

In September, 2015, sub-slab depressurization systems (SSDS) were installed in the Site building and the Marinello building (adjacent to the north) to mitigate vapor intrusion risk. Initial commissioning of the SSDS was performed during April 4-5, 2016 under cool weather conditions when the buildings were heated. The purpose of commissioning is to verify that the SSDS is operating effectively to prevent indoor air exposure to sub-slab vapors. Commissioning included monitoring of: system vacuum; air flow rate; and the extension of the negative pressure field beneath the slab. Indoor air and outdoor air samples were collected in both buildings prior to operating the system to establish a base line (Table 1 in **Attachment 1**).

A second round of sampling and system inspections were performed on July 28, 2016. Indoor and outdoor air samples were also collected while the system was in operation (Table 1, **Attachment 1**). Logs of the information recorded and analytical results sheets of indoor/outdoor

air sampling are presented in **Attachment 4**, along with figures depicting the configurations of the systems and pressure field extension readings. As can be seen in this documentation, the SSDSs are operating as designed with significant negative pressure extending beneath the entire floor slabs.

CONCLUSIONS

The two (2) SSDSs are operating efficiently as designed during both the heating and non-heating months. Therefore, no further commissioning is required. System monitoring will be performed annually to ensure continued effectiveness.

Groundwater impacts above the ES were detected along the sanitary main that extends north from the Site. Although concentrations decrease with distance, the extent of the impacts above the ES has not been determined. It is also not known whether the groundwater impacts detected are part of a larger, more diffuse plume, or if the groundwater impacts migrated preferentially along the sewer main. The building adjacent to the Site to the north (Marinello's at 2248 S. 108th Street) has groundwater impacts above the ES in the basement sump, and vapor risks have been mitigated using an SSDS. Although the next building to the north (Stefaniak Realty at 2234 S. 108th Street) did not have contaminated groundwater in the basement sump or sub-slab vapor in concentrations exceeding risk levels, it is not known if any additional structures to the north of the Site along the path of migrating groundwater impacts are at risk for vapor intrusion.

The source of the groundwater impacts is likely concentrations of CVOCs that continue to exist on the west side of the Site building in unsaturated soil. Based on the data produced by former consultants (ARCADIS), contaminated groundwater was treated, but the unsaturated soil impacts were not targeted for remediation and significant concentrations of CVOC's remain (see ARCADIS Figure B.2.a and Table A.2 in **Attachment 5** for reference). These soil impacts extend to the capillary fringe. It is possible that the presence of continued groundwater impacts post remediation are due to the washing out of contaminants during up and down movements of the water table over time.

RECOMMENDATIONS

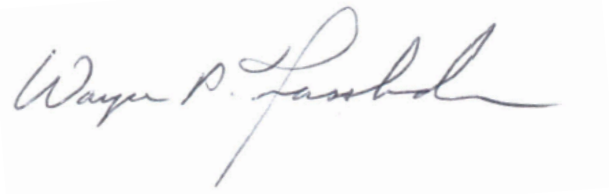
There are currently no groundwater monitoring wells to determine whether the groundwater plume has re-established or spread post remediation, and the extent of impacts in both groundwater and vapor has not yet been determined to the north. It is also not known if the soil impacts on the west side of the building continue to contribute impacts to groundwater.

EnviroForensics recommends that a work scope be prepared to address the investigations needed to eliminate these unknowns.

If you have any questions regarding this progress report, please do not hesitate to call me at (414) 982-3988.

Sincerely,

Environmental Forensic Investigations, Inc.

A handwritten signature in black ink that reads "Wayne P. Fassbender".

Wayne Fassbender, PG, PMP
Senior Project Manager

Attachments:

- Attachment 1: Figure 1 and Tables 1 and 2
- Attachment 2: Analytical Results Sheets
- Attachemnt 3: Figure of Sub-slab Sample Locations at Stefaniak Realty
- Attachment 4: SSDS Commissioning Information
- Attachment 5: ARCADIS Figure and Table

cc: John Hnat, WDNR
Ted Warpinski, Friebert, Finerty & St. John S.C.
Jene Bastian, Travelers Insurance

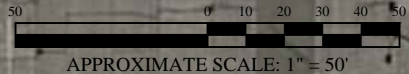
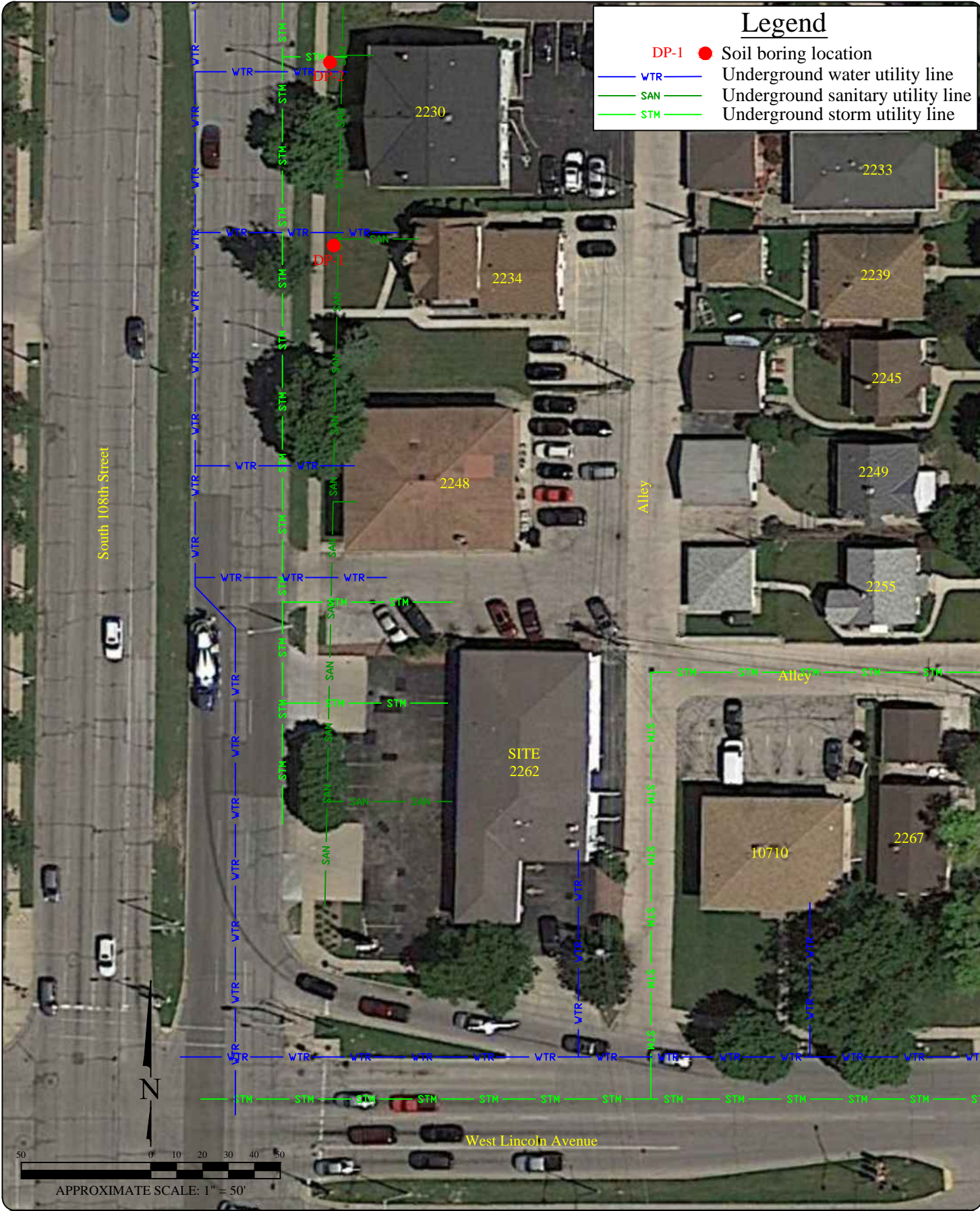


ATTACHMENT 1

Figure 1 and Tables 1 and 2

Legend

- DP-1 Soil boring location
- VTR Underground water utility line
- SAN Underground sanitary utility line
- STM Underground storm utility line



No.	Date	Revision	Approved

ENVIROforensics

ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
602 N. Capitol Ave, Suite 210 • Indianapolis, IN 46204
EnviroForensics.com

Date:	8/15/16
Designed:	EB
Drawn:	EB
Checked:	KH
DWG file:	6406-0237

SITE PLAN
OHM - Lincoln
2262 South 108th Street
West Allis, Wisconsin

Figure	1
Project	6406

TABLE 1
VAPOR INTRUSION ASSESSMENT RESULTS
 One Hour Martinizing
 2262 South 108th Street, West Allis, Wisconsin

Sample Address	Sample Identification	Sample Location	Applicable Criteria	Date Sampled	Mitigation	Chlorinated VOCs				
						Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
INDOOR/ OUTDOOR AIR										
Residential Vapor Action Level						42	2.1	NE	NE	1.7
Non-Residential Vapor Action Level						180	8.8	NE	NE	28
2248 S. 108th St.	6406-2248-OA-1	Outdoor	Non-Residential	4/6/2016	NA	<3.96	<3.19	<3.96	<1.07	<0.64
	6406-2248-IA-B	Basement	Non-Residential	4/6/2016	No	14.7	<1.07	<3.96	<0.64	<0.64
				7/28/2016	Yes	4.34	<1.07	<3.96	<3.96	<0.64
2262 S. 108th St.	6406-2262-IA-1	1st Floor	Non-Residential	4/6/2016	No	7.49	312	<3.96	7.15	<0.64
	6406-OA-1	Outdoor	NA	7/28/2016	Yes	<3.19	<1.07	<19.8	<39.6	<1.28
				7/28/2016	NA	<3.19	<1.07	<19.8	<39.6	<1.28
10710 W. Lincoln Avenue	6406-10710-IA-B	Basement	Residential	9/10/2015	No	<3.19	<1.07	<19.8	<39.6	<1.28
	6406-10710-IA-1	First Floor	Residential	9/10/2015	No	<3.19	<1.07	<19.8	<39.6	<1.28
	6406-10710-IA-2	Second Floor	Residential	9/10/2015	No	<3.19	<1.07	<19.8	<39.6	<1.28
	6406-10710-OA	Outdoor	Residential	9/10/2015	No	<3.19	<1.07	<19.8	<39.6	<1.28
SUB-SLAB VAPOR										
Residential Vapor Risk Screening Level						1,400	70	NE	NE	57
Non-Residential Vapor Risk Screening Level						6,000	293	NE	NE	930
2234 S. 108th Street	6406-2234-SSV-1	Basement	Non-Residential	7/28/2016	No	<31.9	<10.7	<39.6	<39.6	<6.4
	6406-2234-SSV-2	Basement	Non-Residential	7/28/2019	No	<31.9	<10.7	<39.6	<39.6	<6.4
10710 W. Lincoln Avenue	6406-10710-SS-1	Basement	Residential	9/10/2015	No	276	<10.7	<198	<396	<12.8
	6406-10710-SS-2		Residential	9/10/2015	No	63.8	<10.7	<198	<396	<12.8
UTILITY SOIL GAS										
Residential Vapor Risk Screening Level						4,200	210	NE	NE	170
Non-Residential Vapor Risk Screening Level						18,000	880	NE	NE	2,800
2234 S. 108th Street	6406-SG-1	NA	Non-Residential	7/28/2016	NA	383	<10.7	<39.6	<39.6	<6.4
2230 S. 108th Street	6406-SG-2	NA	Residential	7/28/2016	NA	619	<10.7	<39.6	<39.6	<6.4

Notes:

Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
 Analysis performed by Envision Laboratories according to EPA Method TO-15
 VOC = Volatile Organic Compound
 IA = Indoor Air
 OA = Outdoor Air
 SSV = Sub-Slab Vapor
 SG = Soil Gas Vapor
 NE = Not Established
 NA = Not Applicable
Bolded values are above detection limits

Bolded and blue shaded concentrations exceed the applicable residential screening level
Bolded and orange shaded concentrations exceed the applicable non-residential screening level
 Sub-slab vapor screening levels derived using the attenuation factor of 0.03.
 Utility soil gas vapor screening levels derived using the attenuation factor of 0.01

TABLE 2
GROUNDWATER RESULTS

One Hour Martinizing
2262 South 108th Street, West Allis, Wisconsin

Monitoring Well Identification	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Public Health Enforcement Standard		5	5	70	100	0.2
Public Health Preventive Action Limit		0.5	0.5	7	20	0.02
6406-2248-SUMP	9/8/2015	81	<4.7	33	<5.4	3.6 J
6406-10710-SUMP	9/8/2015	<0.49	<0.47	<0.45	<0.54	<0.17
6406-2230-SUMP	7/28/2016	<0.49	<0.47	<0.45	<0.54	<0.17
DP-1W	7/28/2016	1,590	7.8 J	<4.5	<5.4	<1.7
DP-2W	7/28/2016	75	0.47 J	0.79 J	<0.54	0.29 J

Notes:

All concentrations reported in micrograms per liter µg/l

Samples analyzed using EPA SW-846 Method 8260

Bolded values are above detection limits

Bolded and Orange Shaded values indicates an exceedance of the Public Health Enforcement Standard

Bolded and Blue Shaded values indicates an exceedance the Public Health Preventive Action Limit

J = Estimated concentration between the laboratory Reporting Limit and the laboratory Method Detection Limit



ATTACHMENT 2

Analytical Results Sheets



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. W. Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 11, 2016

EnvisionAir Project Number: 2016-475
Client Project Name: 6406 / OHM-Lincoln

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received August 2, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-475

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Lab</u>
			<u>Date</u>	<u>Time</u>							
16-1706	6406-SG-1	A	7/28/16	9:55	7/28/16	10:01	8/2/16	11:00	-29.5	-2	-2
16-1707	6406-SG-2	A	7/28/16	10:30	1/0/00	10:01	8/2/16	11:00	-29	-2	-2



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-475

Analytical Method: TO-15
Analytical Batch: 080416AIR

Client Sample ID: 6406-SG-1
Envision Sample Number: 16-1706
Sample Matrix: AIR

Sample Collection START Date/Time: 7/28/16 9:55
Sample Collection END Date/Time: 7/28/16 10:01
Sample Received Date/Time: 8/2/16 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 39.6	39.6	
Tetrachloroethene	383	31.9	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 6.4	6.4	
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	8-6-16/06:51		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-475

Analytical Method: TO-15
Analytical Batch: 080416AIR

Client Sample ID: 6406-SG-2
Envision Sample Number: 16-1707
Sample Matrix: AIR

Sample Collection START Date/Time: 7/28/16 10:30
Sample Collection END Date/Time: 7/28/16 10:35
Sample Received Date/Time: 8/2/16 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 39.6	39.6	
Tetrachloroethene	619	31.9	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 6.4	6.4	
4-bromofluorobenzene (surrogate)	107%		
Analysis Date/Time:	8-6-16/07:27		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 080416AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	109%		
Analysis Date/Time:	8-5-16/12:52		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.2	10.4	10	102%	104%	1.9%	
trans-1,2-Dichloroethene	9.74	9.78	10	97%	98%	0.4%	
cis-1,2-Dichloroethene	10.2	10.2	10	102%	102%	0.0%	
Trichloroethene	9.22	9.23	10	92%	92%	0.1%	
Tetrachloroethene	9.93	9.92	10	99%	99%	0.1%	
4-bromofluorobenzene (surrogate)	106%	106%					
Analysis Date/Time:	8-5-16/11:34	8-5-16/12:17					
Analyst Initials	tjg	tjg					



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

Comments

CHAIN OF CUSTODY RECORD

WAF

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <i>EnviroForensics</i>	P.O. Number: <i>2016 757</i>
Report Address: <i>N16 W23390 Stone Ridge Dr St. G. Waukesha WI 53188</i>	Project Name or Number: <i>6406 OHM-Lincoln</i>
Report To: <i>W. Fassbender K. Himmstead</i>	Sampled by: <i>K. Himmstead</i>
Phone: <i>317-972-7870</i>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List

Dry Clean



Sampling Type:
 Soil-Gas:
 Sub-Slab:
 Indoor-Air:

www.envision-air.com

Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
<i>6406-SG-1</i>	<i>1LL</i>	<i>7/28/16</i>	<i>955</i>	<i>7/28/16</i>	<i>1001</i>	<i>+</i>				<i>84045</i>	<i>-</i>	<i>-29.5</i>	<i>-2</i>	<i>-2</i>	<i>16-1706</i>
<i>6406-SG-2</i>	<i>1LL</i>	<i>7/28/16</i>	<i>1030</i>	<i>7/28/16</i>	<i>1035</i>	<i>+</i>				<i>83941</i>	<i>-</i>	<i>-29</i>	<i>-2</i>	<i>-2</i>	<i>16-1707</i>

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	<i>8/1/2016</i>		<i>Feel Ex Kean Himmstead</i>	<i>8/1/2016</i>	
				<i>8/2/16</i>	<i>1100</i>

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

WAYNE FASSBENDER
ENVIROFORENSICS
N16 W23390 STONE RIDGE DRIVE
WAUKESHA, WI 53188

Report Date 10-Aug-16

Project Name OHM-LINCOLN Invoice # E31456
Project # 6406
Lab Code 5031456A
Sample ID 6406-DP-1W
Sample Matrix Water
Sample Date 7/28/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	< 4.5	ug/l	4.5	14	10	8260B		8/4/2016	CJR	1
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		8/4/2016	CJR	1
Tetrachloroethene	1590	ug/l	4.9	15	10	8260B		8/4/2016	CJR	1
Trichloroethene (TCE)	7.8 "J"	ug/l	4.7	15	10	8260B		8/4/2016	CJR	1
Vinyl Chloride	< 1.7	ug/l	1.7	5.4	10	8260B		8/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			10	8260B		8/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			10	8260B		8/4/2016	CJR	1
SUR - Dibromofluoromethane	97	REC %			10	8260B		8/4/2016	CJR	1
SUR - Toluene-d8	100	REC %			10	8260B		8/4/2016	CJR	1

Lab Code 5031456B
Sample ID 6406-DP-2W
Sample Matrix Water
Sample Date 7/28/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	0.79 "J"	ug/l	0.45	1.4	1	8260B		8/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/5/2016	CJR	1
Tetrachloroethene	75	ug/l	0.49	1.5	1	8260B		8/5/2016	CJR	1
Trichloroethene (TCE)	0.47 "J"	ug/l	0.47	1.5	1	8260B		8/5/2016	CJR	1
Vinyl Chloride	0.29 "J"	ug/l	0.17	0.54	1	8260B		8/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	77	REC %			1	8260B		8/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	117	REC %			1	8260B		8/5/2016	CJR	1
SUR - Dibromofluoromethane	88	REC %			1	8260B		8/5/2016	CJR	1
SUR - Toluene-d8	118	REC %			1	8260B		8/5/2016	CJR	1

Project Name OHM-LINCOLN
Project # 6406

Invoice # E31456

Lab Code 5031456C
Sample ID 6406-DUP-1
Sample Matrix Water
Sample Date 7/28/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	< 4.5	ug/l	4.5	14	10	8260B		8/4/2016	CJR	1
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		8/4/2016	CJR	1
Tetrachloroethene	1460	ug/l	4.9	15	10	8260B		8/4/2016	CJR	1
Trichloroethene (TCE)	7.7 "J"	ug/l	4.7	15	10	8260B		8/4/2016	CJR	1
Vinyl Chloride	< 1.7	ug/l	1.7	5.4	10	8260B		8/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			10	8260B		8/4/2016	CJR	1
SUR - Dibromofluoromethane	98	REC %			10	8260B		8/4/2016	CJR	1
SUR - Toluene-d8	102	REC %			10	8260B		8/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			10	8260B		8/4/2016	CJR	1

Lab Code 5031456D
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/28/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		8/4/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/4/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/4/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		8/4/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		8/4/2016	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		8/4/2016	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		8/4/2016	CJR	1

Lab Code 5031456E
Sample ID 6406-2234 SUMP
Sample Matrix Water
Sample Date 7/28/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		8/4/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		8/4/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		8/4/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		8/4/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		8/4/2016	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		8/4/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		8/4/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		8/4/2016	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		8/4/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

A handwritten signature in blue ink, appearing to read "Michael J. ...", is written over a horizontal line.

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No.: _____ Quote No.: _____
Project #: **6406**
Sampler: (signature) *[Signature]*

Project (Name / Location): **OHM-Lincoln / West Allis, WI**

Reports To: **W. Fassbender / K. Hermetend** Invoice To: _____
Company: **EnviroFenatics** Company: _____
Address: **N16 W23390 Stone Ridge Dr. STE G** Address: _____
City State Zip: **Waukesha WI 53188** City State Zip: _____
Phone: **317-972-7870** Phone: _____
FAX: _____ FAX: _____

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection		Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID	
		Date	Time																						
S031450 A	6406-DP-2W	7/28	1355		X	N	3	GW	HCL																
B	6406-DP-2W	7/28	1410		X	N	3	GW	HCL													X			
C	6406-DP-1	7/28	-		X	N	3	GW	HCL													X			
D	TRIP BLANK						1															X			
E	6406-2234-SUMP	7/28	1250		X	N	3	GW	HCL													X			

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

PO# 2016 790

**Dry cleaner list only
(PCE, TCE, cis/trans PCE, VC)**

Sample Integrity - To be completed by receiving lab.
Method of Shipment: **Spin**
Temp. of Temp. Blank _____ °C On Ice: **X**
Cooler seal intact upon receipt: **X** Yes _____ No

Relinquished By: (sign) *[Signature]* Time **1302** Date **07/29/16**
Received By: (sign) *[Signature]* Time _____ Date _____

Received in Laboratory By: *[Signature]* Time: **10:00** Date: **7/30/16**



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. W. Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 11, 2016

EnvisionAir Project Number: 2016-474
Client Project Name: 6406 / OHM-Lincoln

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received August 2, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-474

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
		<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</u>	
		<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
16-1704	6406-2234-SSV-1	A	7/28/16 12:15	7/28/16	12:21	8/2/16	11:00	-29	-2	-2
16-1705	6406-2234-SSV-2	A	7/28/16 12:35	7/28/16	12:40	8/2/16	11:00	-29	-2	-2



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-474

Analytical Method: TO-15
Analytical Batch: 080416AIR

Client Sample ID: 6406-2234-SSV-1
Envision Sample Number: 16-1704
Sample Matrix: AIR

Sample Collection START Date/Time: 7/28/16 12:15
Sample Collection END Date/Time: 7/28/16 12:21
Sample Received Date/Time: 8/2/16 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 39.6	39.6	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 6.4	6.4	
4-bromofluorobenzene (surrogate)	107%		
Analysis Date/Time:	8-6-16/05:37		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-474

Analytical Method: TO-15
Analytical Batch: 080416AIR

Client Sample ID: 6406-2234-SSV-2 **Sample Collection START Date/Time:** 7/28/16 12:35
Envision Sample Number: 16-1705 **Sample Collection END Date/Time:** 7/28/16 12:40
Sample Matrix: AIR **Sample Received Date/Time:** 8/2/16 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 39.6	39.6	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 6.4	6.4	
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	8-6-16/06:14		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 080416AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	109%		
Analysis Date/Time:	8-5-16/12:52		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.2	10.4	10	102%	104%	1.9%	
trans-1,2-Dichloroethene	9.74	9.78	10	97%	98%	0.4%	
cis-1,2-Dichloroethene	10.2	10.2	10	102%	102%	0.0%	
Trichloroethene	9.22	9.23	10	92%	92%	0.1%	
Tetrachloroethene	9.93	9.92	10	99%	99%	0.1%	
4-bromofluorobenzene (surrogate)	106%	106%					
Analysis Date/Time:	8-5-16/11:34	8-5-16/12:17					
Analyst Initials	tjg	tjg					



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

Comments

CHAIN OF CUSTODY RECORD *WAF*

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <i>EnviroForensics</i>	P.O. Number: <i>2016 757</i>
Report <i>M6 W23390 Stone Ridge Dr.</i> Address: <i>Ste G</i> <i>Waukesha WI 53188</i>	Project Name or Number: <i>6406</i> <i>OHM - Lincoln</i>
Report To: <i>W. Fassbender / K. Heimstead</i>	Sampled by: <i>K. Heimstead</i>
Phone: <i>317-972-7870</i>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) <u>µg/m³</u> mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List Dry Clean



Sampling Type:
Soil-Gas:
Sub-Slab:
Indoor-Air:

www.envision-air.com

Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>	Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
<i>6406-2234-SSV-1</i>	<i>1LC</i>	<i>7/28/16</i>	<i>1215</i>	<i>7/28/16</i>	<i>1221</i>	<i>83783</i>	<i>-</i>	<i>-29</i>	<i>-2</i>	<i>-2</i>	<i>16-1704</i>
<i>6406-2234-SSV-2</i>	<i>1LC</i>	<i>7/28/16</i>	<i>1235</i>	<i>7/28/16</i>	<i>1240</i>	<i>83726</i>	<i>-</i>	<i>-29</i>	<i>-2</i>	<i>-2</i>	<i>16-1705</i>

Comments:

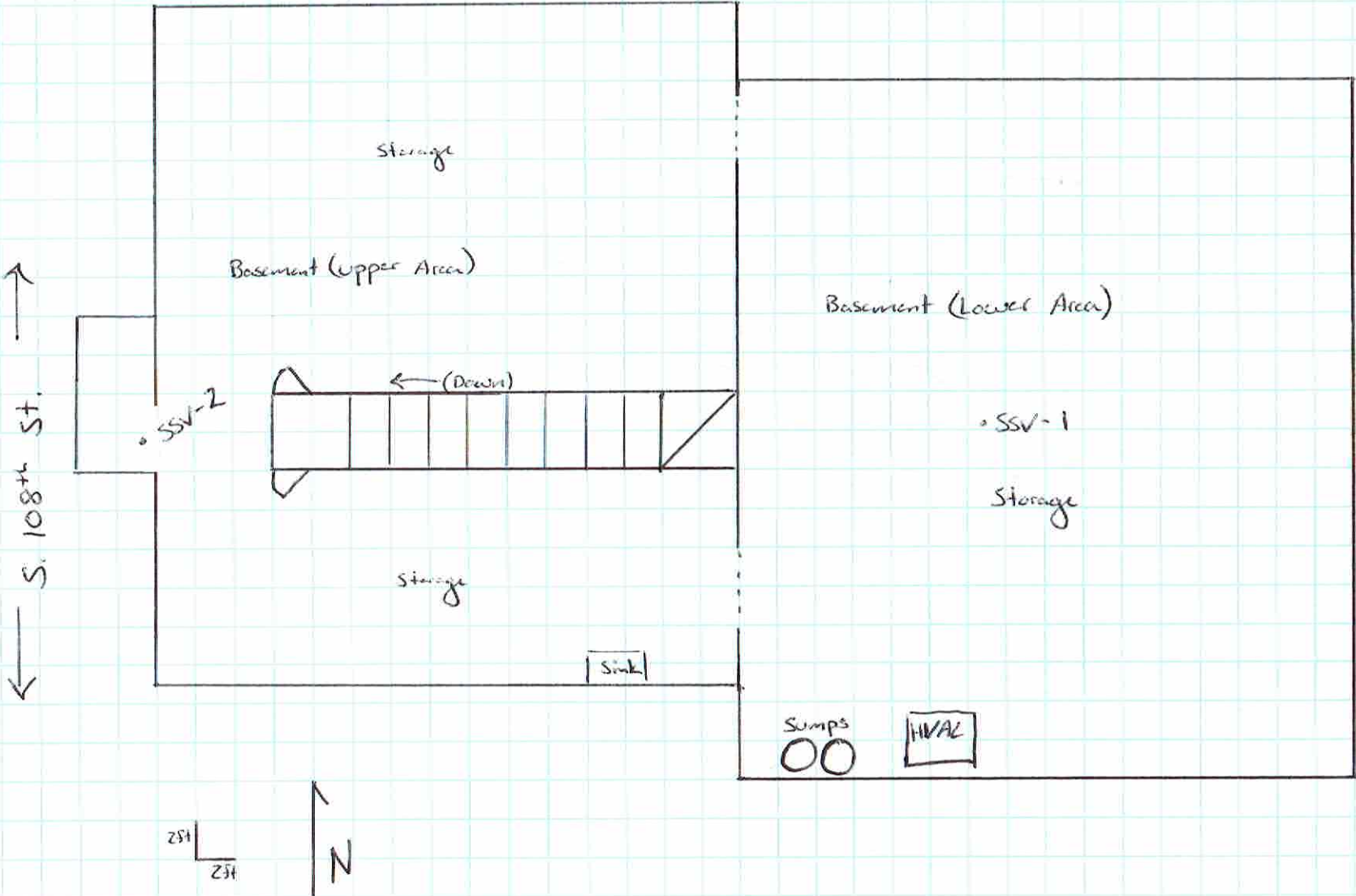
Relinquished by:	Date	Time	Received by:	Date	Time
<i>Kyle H. [Signature]</i>	<i>8/1/16</i>		<i>Frederic [Signature]</i>	<i>8/1/16</i>	
			<i>Kyle Heimstead</i>	<i>8/2/16</i>	<i>1100</i>



ATTACHMENT 3

Figure of Sub-slab Sample Locations at Stefaniak Realty

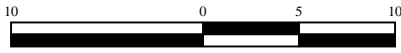
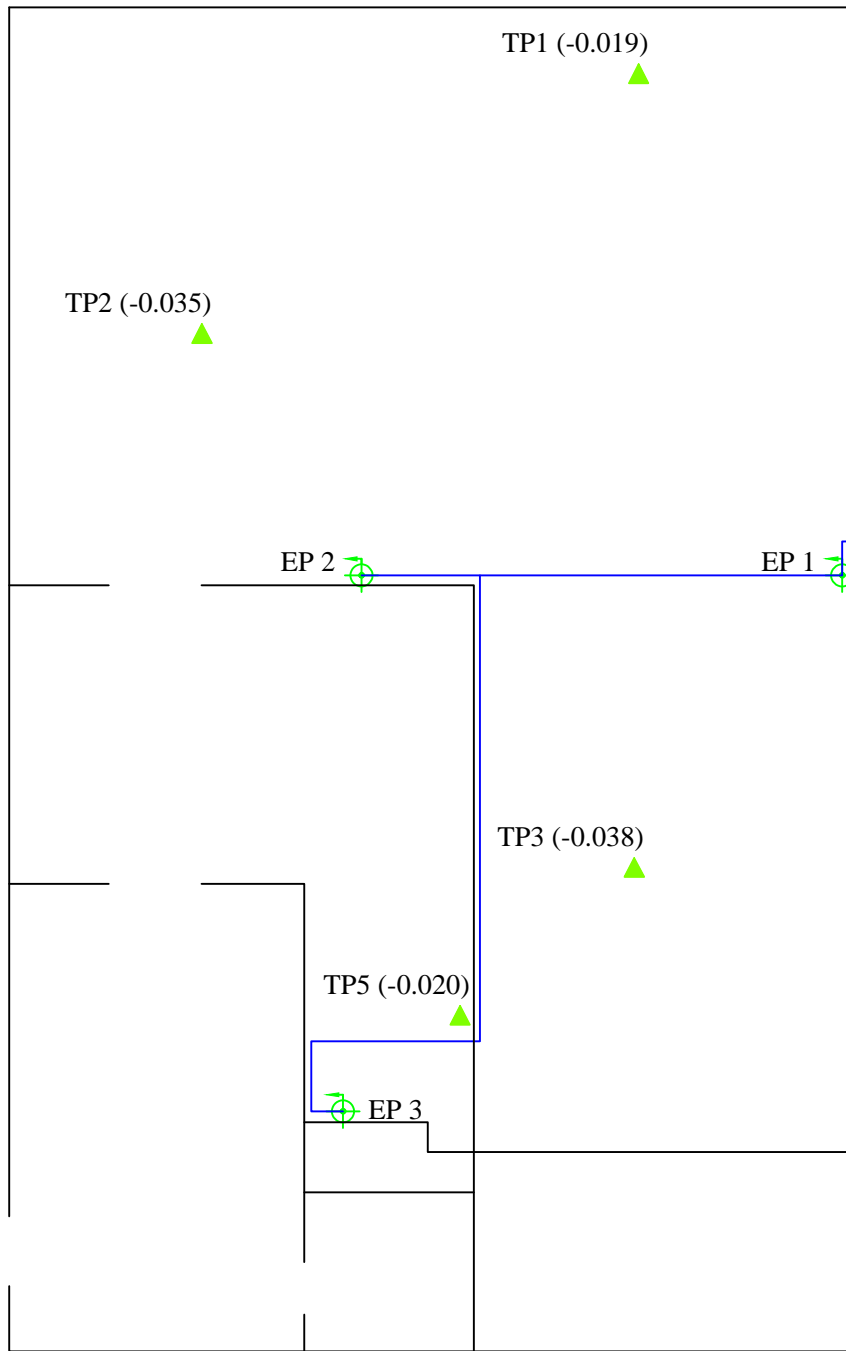
2234 S. 108th St.









ATTACHMENT 4

SSDS Commissioning Information



APPROXIMATE SCALE: 1" = 10'

Legend

- EP-1  Extraction point
 -  Mitigation Fan
 -  Piping
 - TP 1  Test Point
- (-1.1) PFE Readings in inches of water (in H₂O)

No.	Date	Revision	Approved



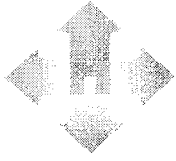
ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 602 N. Capitol Ave., Suite 210 • Indianapolis, IN 46204
 EnviroForensics.com

Date:	8/1/16
Designed:	EB
Drawn:	EB
Checked:	KH
DWG file:	6406-0173

SUB SLAB DEPRESSURIZATION SYSTEM LAYOUT
 OHM Property
 2262 South 108th Street
 West Allis, Wisconsin

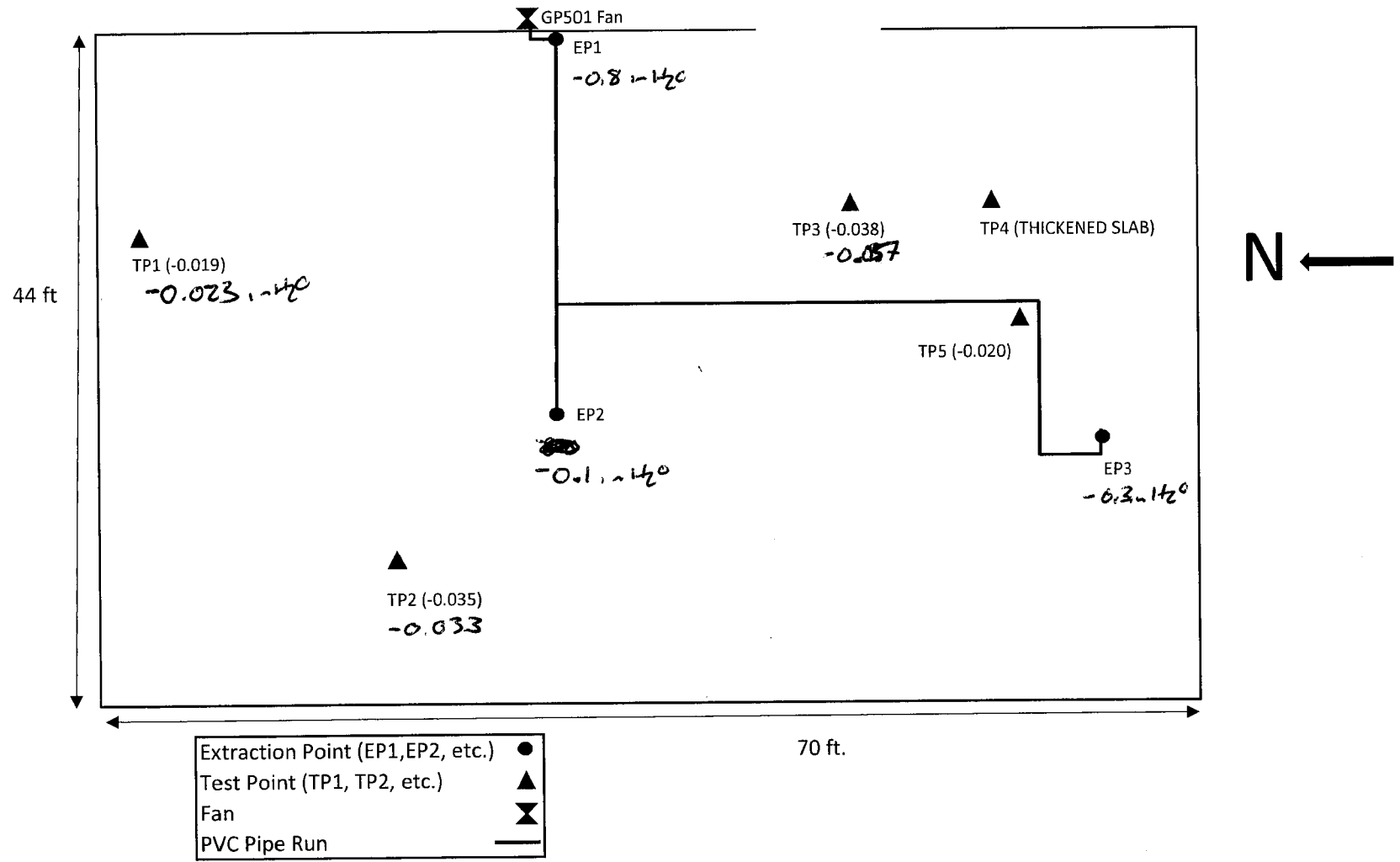
Figure	1
Project	6406

Figure 2
System Layout



VAPOR
PROTECTION
SERVICES®

Prepared for: EnviroForensics
 Kyle Heimstead & Wayne Fassbender
 Site: 2262 S. 108th St.
 West Allis, WI 53227
 VPS # 201504186





INDOOR AIR BUILDING SURVEY FORM

Date 4/5/16
 Site # 6406
 Site Name OHM Lincoln
 Address 2262 S. 108th St
West Allis, WI

Occupant Information

Owner Name Frank Marinello
 Occupant Name NA
 Address 2248 S. 108th St
West Allis, WI
 Telephone No (414) 545-8777 Home/Work/Mobile
 () Home/Work/Mobile

Number and Age of Occupants NA

Does anyone smoke inside the building? maybe tenants (2nd Floor)

Building Characteristics

Type of building: (circle) Residential/Industrial/School/Commercial/Multi-use/Other? _____
 If residential, what type (circle) Single family/Condo/Multi-family/Other? _____
 If the property is commercial, indicate the business? Hair salon / Apartments
 How many floors does the building have? 3
 Does the building have a (circle) Basement/Crawl space/Slab-on-grade/Other? _____
 Is the basement used as a living/work space area? NO
 What type of foundation does the building have (circle) Field stone/Poured concrete/Concrete block/Other? _____
 Is there an attached garage? N Is there a fuel tank? N
 Is there a wood stove? N Is there a fireplace? N



7th Tempco

Payne (Plus 80) High eff. furnace

Describe the heating system: (circle) Forced air furnace/ Boiler/ Window air conditioner/Other? _____

If forced air heating, answer the following questions:

Is there a fresh air exchange? If so, details: No

Are air ducts located within the crawl space of the property? No

Are there additional vents within the property? (Non-powered vent bathroom vent/etc.) _____

Table 1: Potential vapor migration entry point information

Potential Vapor Entry Points	Present (Yes/No)	Field Screening Results (ppm)	Picture	Comments
Foundation penetrations in floor or walls	N			
Cracks in foundation floor or walls	Y	0		
Sump	Y	0		
Floor drain	Y	0		
Other				
Other				

Sampling Information

Sample Date 4/6/16

Sampler Type Sorbent SUMMA Passive (Please circle one)

Analysis Method Mass APH TO-15 Standard TO-15LL TO-15-SIM TO-17 Other: (Please circle one)

Contact Person (Project Manager) W. Fassbender

Telephone No (317) 972 7870

Laboratory Envision

Telephone No 317) 351-0885

Table 2: Pre-Sampling Background Screening and Inspection Information

List products or items which may be considered potential sources of VOCs such as paint cans, gasoline cans, gasoline powered equipment, cleaning solvents, furniture polish, moth balls, etc.

Date and time of pre-sampling inspection 4/5/16 @ 0900

Sampling Inspection Product Inventory

	<u>Potential Source/ Trade Name</u>	<u>Location</u> (Floor/Room)	<u>Active/Main Ingredient</u>	<u>Picture</u>	<u>Removed</u> (Y/N)
A.	WiWax	B	polyethylene	Y	N
B.	Latex Enamel	B	Acrylic Resin	Y	N
C	Sanding Sealer & Finish	B	Aliphatic Hydrocarbons, Vinyl Toluene	Y	N



Sampling Information

Table 3: Sorbent Tube Sampler Information

Sample ID#	Floor	Room	Tube ID#	Pump ID#	Volume (liters)	Duration (minutes)	Comments

Table 4: Canister Sampler Information

Sample ID#	Floor	Room	Canister ID#	Initial On-site Pressure*	Final On-Site Pressure*
6406-2248-OA-1	OA	—	4687/07256	-30	-5
6406-2248-IA-B	Basement	—	19625/05248	-30	-7.5

*Indicate pressure in units of inches of mercury.
Please provide a sketch of building and sample locations on the following page.

Was the building ventilated prior to sample collection? No

How long was the ventilation process? NA

Were vapor control methods in effect while the samples were being collected?

Windows open? Yes No Ventilation fans? Yes / No Vapor barriers? Yes / No

Vapor phase carbon treatment system? Yes No SSDS? Yes / No Other site control measures _____

Weather Conditions during Sampling

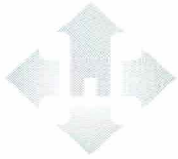
Outside temperature (°F) High: 35 Low: 24 Inside temperature (°F) NA

Prevailing wind speed and direction 7 NW

Describe the general weather conditions (e.g. sunny, cloudy, rain) light rain, then cloudy

Significant precipitation (1 inches or more) within 72 hours of the sampling event? No

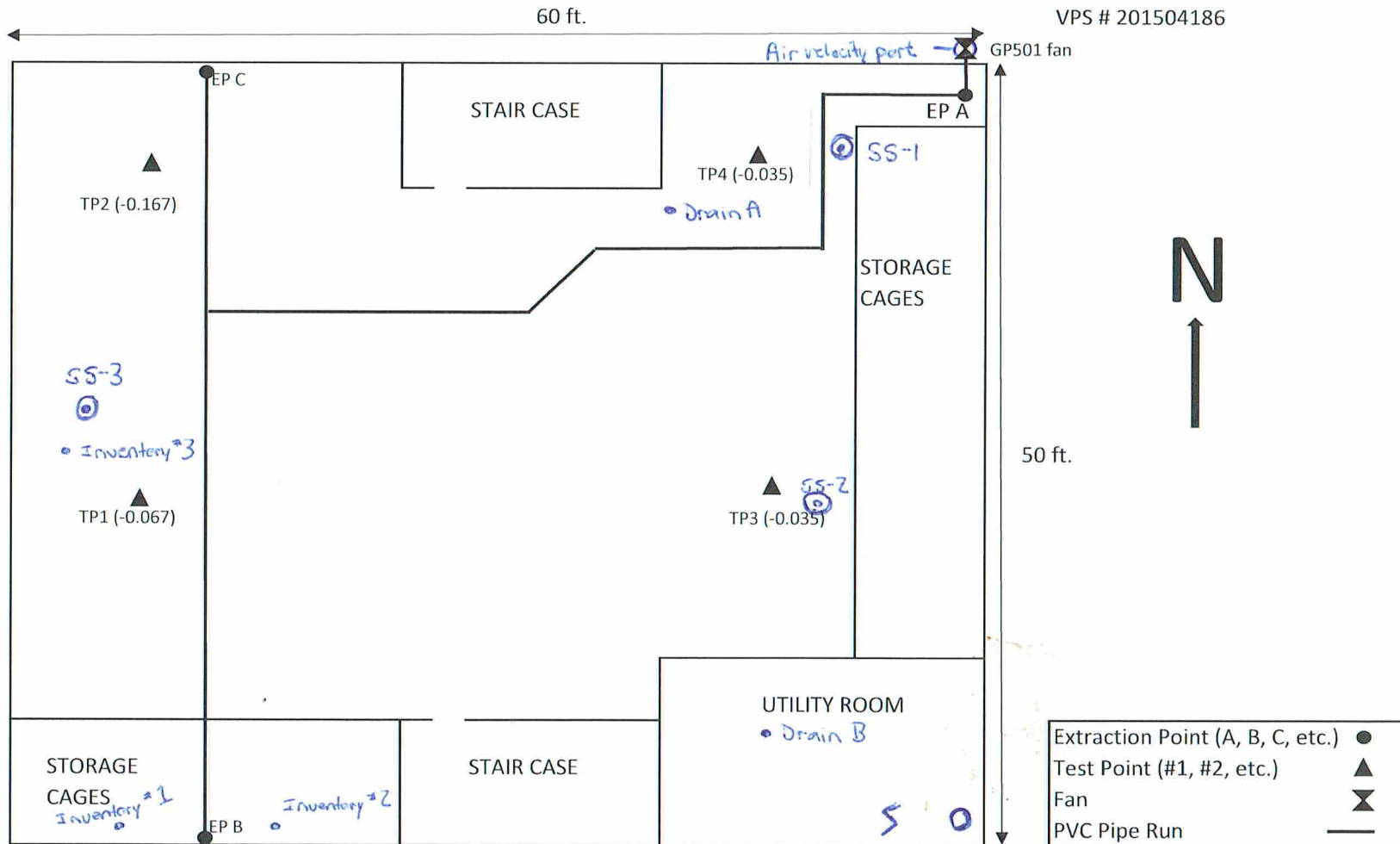
Figure 1
System Layout



VAPOR
PROTECTION
SERVICES®

Prepared for: EnviroForensics
 Kyle Heimstead & Wayne Fassbender
 Site: 2248 S. 108th St.
 W. Allis, WI 53227

VPS # 201504186



602 N. Capitol Avenue, Ste. 210,
 Indianapolis, IN 46204
 T: 317-972-7870 F: 317-972-7875

PROJECT NAME	<u>OHM - Lincoln</u>	SAMPLE DATE	<u>4/6/2016</u>
LOCATION/ADDRESS	<u>2248 S. 108th St</u>	SAMPLE ID	<u>6406-2248-OA-1</u>
PROJECT NO.	<u>6406</u>	SAMPLE TIME	
CLIENT/CONTACT	<u>Brian Cass</u>	CANISTER ID	6406 <u>4689/07256</u>
DATA COLLECTION: START DATE	<u>4/6/2016</u>	END DATE	<u>4/6/2016</u>

Time hh:mm	Vacuum Reading In. of H2O	Wind Direction	Wind Speed mph	Temperature °F	Barometer Hg	Relative Humidity %
<u>0653</u>	<u>-30</u>	<u>NW</u>	<u>7</u>	<u>24°</u>	<u>NA</u>	<u>71</u>
<u>1458</u>	<u>-5</u>	<u>NW</u>	<u>7</u>	<u>35°</u>	<u>NA</u>	<u>71</u>

Notes:

602 N. Capitol Avenue, Ste. 210,
Indianapolis, IN 46204
T:317-972-7870 F: 317-972-7875

PROJECT NAME	OHM - Lincoln	SAMPLE DATE	4/6/2016
LOCATION/ADDRESS	2248 S. 108 th St	SAMPLE ID	6406-2248-IA-B
PROJECT NO.	6406	SAMPLE TIME	
CLIENT/CONTACT	Brian Cass	CANISTER ID	19625 / 08048
DATA COLLECTION: START DATE	4/6/2016	END DATE	4/6/2016

Time hh:mm	Vaccum Reading In. of H2O	Wind Direction	Wind Speed mph	Temperature ° F	Barometer Hg	Relative Humidity %
0648	-3.0	NW	7	64°	NA	71
1456	-4.5	NW	7	35°	NA	71

Notes:



INDOOR AIR BUILDING SURVEY FORM

Date 4/5/16
 Site # 6408
 Site Name OHM - Lincoln
 Address 2262 S. 108th St
West Allis, WI

Occupant Information

Owner Name Brian Cass
 Occupant Name NA
 Address 2262 S. 108th St
West Allis, WI
 Telephone No 227 521 9710 Home/Work/Mobile
 () _____ Home/Work/Mobile

Number and Age of Occupants NA

Does anyone smoke inside the building? Ø

Building Characteristics

Type of building: (circle) Residential/Industrial/School/Commercial/Multi-use/Other? _____
 If residential, what type (circle) Single family/Condo/Multi-family/Other? _____
 If the property is commercial, indicate the business? Dry cleaner
 How many floors does the building have? 1
 Does the building have a (circle) Basement/Crawl space/Slab-on-grade/Other? _____
 Is the basement used as a living/work space area? _____
 What type of foundation does the building have (circle) Field stone/Reinforced concrete/Concrete block Other? _____
 Is there an attached garage? N Is there a fuel tank? _____
 Is there a wood stove? N Is there a fireplace? N



Describe the heating system: (circle) Forced air furnace Boiler/ Window air conditioner/Other? _____

If forced air heating, answer the following questions:

Is there a fresh air exchange? If so, details: NO

Are air ducts located within the crawl space of the property? NA

Are there additional vents within the property? (Non-powered vent/ bathroom vent/etc.) _____

Table 1: Potential vapor migration entry point information

Potential Vapor Entry Points	Present (Yes/No)	Field Screening Results (ppm)	Picture	Comments
Foundation penetrations in floor or walls	<u>Y</u>		<u>Y</u>	
Cracks in foundation floor or walls	<u>Y</u>		<u>Y</u>	
Sump	<u>N</u>	<u>NA</u>		
Floor drain	<u>Y</u>		<u>Y</u>	
Other <u>crawl space</u>	<u>Y</u>	<u>0</u>	<u>Y</u>	<u>overhead ~ 15'</u>
Other				

Sampling Information

Sample Date 4/6/16

Sampler Type Sorbent SUMMA Passive (Please circle one)

Analysis Method Mass APH TO-15Standard TO-15LL TO-15-SIM TO-17 Other: (Please circle one)

Contact Person (Project Manager) W. Fassbender

Telephone No (317) 972 7870

Laboratory Envision

Telephone No (317) 351 - 0885



Table 2: Pre-Sampling Background Screening and Inspection Information

List products or items which may be considered potential sources of VOCs such as paint cans, gasoline cans, gasoline powered equipment, cleaning solvents, furniture polish, moth balls, etc.

Date and time of pre-sampling inspection 4/5/16 @ 1500

Sampling Inspection Product Inventory

<u>Potential Source/ Trade Name</u>	<u>Location (Floor/Room)</u>	<u>Active/Main Ingredient</u>	<u>Picture</u>	<u>Removed (Y/N)</u>
Wet system 206 Slow Hardener Pt 2	work room	polypropylene diamine	Y	N
Novus 2 fine scratch remover	work room	unknown	Y	N
Wet system 105 Epoxy Resin	work room	unknown	Y	N

Sampling Information

Table 3: Sorbent Tube Sampler Information

Sample ID#	Floor	Room	Tube ID#	Pump ID#	Volume (liters)	Duration (minutes)	Comments

Table 4: Canister Sampler Information

Sample ID#	Floor	Room	Canister ID#	Initial On-site Pressure*	Final On-Site Pressure*
6406-2262-IA-1	Main	office	17896/05308	-28	-3

*Indicate pressure in units of inches of mercury.

Please provide a sketch of building and sample locations on the following page.

Was the building ventilated prior to sample collection? No

How long was the ventilation process? NA

Were vapor control methods in effect while the samples were being collected?

Windows open? Yes / No Ventilation fans? Yes / No Vapor barriers? Yes / No

Vapor phase carbon treatment system? Yes / No SSDS? Yes / No Other site control measures NA

Weather Conditions during Sampling

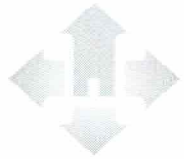
Outside temperature (°F) High: 35 Low: 24 Inside temperature (°F) NA

Prevailing wind speed and direction 7 NW

Describe the general weather conditions (e.g. sunny, cloudy, rain) light rain, then cloudy

Significant precipitation (1 inches or more) within 72 hours of the sampling event? No

Figure 2
System Layout



VAPOR
PROTECTION
SERVICES®

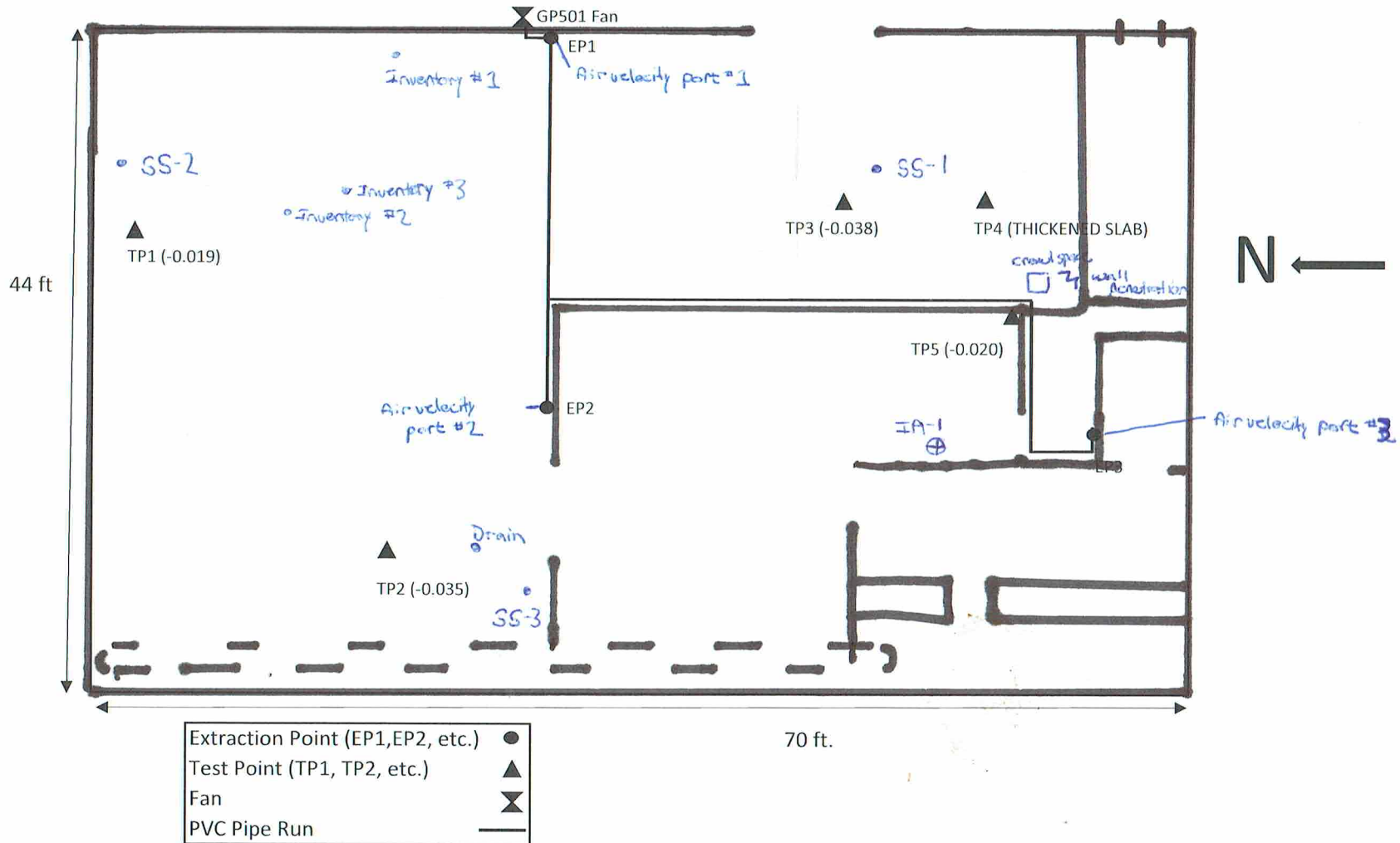
Prepared for: EnviroForensics

Kyle Heimstead & Wayne Fassbender

Site: 2262 S. 108th St.

West Allis, WI 53227

VPS # 201504186



602 N. Capitol Avenue, Ste. 210,
 Indianapolis, IN 46204
 T:317-972-7870 F: 317-972-7875

PROJECT NAME	<u>OHM - Lincoln</u>	SAMPLE DATE	<u>4/6/2016</u>
LOCATION/ADDRESS	<u>2262 S. 108th St</u>	SAMPLE ID	<u>6406-2262-IA-1</u>
PROJECT NO.	<u>6406</u>	SAMPLE TIME	
CLIENT/CONTACT	<u>Brian Cass</u>	CANISTER ID	<u>17896 / 05308</u>
DATA COLLECTION: START DATE	<u>4/6/2016</u>	END DATE	<u>4/6/2016</u>

Time hh:mm	Vacuum Reading In. of H2O	Wind Direction	Wind Speed mph	Temperature °F	Barometer Hg	Relative Humidity %
<u>0657</u>	<u>-28</u>	<u>NW</u>	<u>7</u>	<u>24°</u>	<u>NA</u>	<u>71</u>
<u>1506</u>	<u>-3</u>	<u>NW</u>	<u>7</u>	<u>35°</u>	<u>NA</u>	<u>71</u>

Notes:

602 N. Capitol Avenue, Ste. 210,
Indianapolis, IN 46204
T:317-972-7870 F: 317-972-7875

PROJECT NO. 6406 SAMPLE ADDRESS 2262-S. 108th St., West Allis WI
PROJECT NAME OHM- Lincoln SAMPLE ID 6406-2262-IA-1
SITE ADDRESS 2262 S. 108th St., West Allis WI CANISTER ID 11072
CLIENT/ CONTACT Brian Coss FLOW CONTROLLER ID 05249

Date Start/End mm/dd/yyyy	Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature ° F	Barometric Pressure In. of Hg	Relative Humidity %
<u>07/28/2016</u>	<u>08:00</u>	<u>-29</u>	<u>NE</u>	<u>5-10</u>	<u>69</u>	<u>29.95</u>	<u>88</u>
<u>07/28/2016</u>	<u>16:00</u>	<u>-8</u>	<u>NE</u>	<u>5-10</u>	<u>68</u>	<u>29.95</u>	<u>73</u>

Notes:

602 N. Capitol Avenue, Ste. 210,
 Indianapolis, IN 46204
 T:317-972-7870 F: 317-972-7875

PROJECT NO. <u>6406</u> PROJECT NAME <u>OHM - Lincoln</u> SITE ADDRESS <u>2262 S. 108th St. West Allis WI</u> CLIENT/ CONTACT <u>Brian Lass</u>	SAMPLE ADDRESS <u>2262 S. 108th St, West Allis WI</u> SAMPLE ID <u>6406-OA-1</u> CANISTER ID <u>19627</u> FLOW CONTROLLER ID <u>07810</u>
--	--

Date Start/End mm/dd/yyyy	Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature ° F	Barometric Pressure In. of Hg	Relative Humidity %
<u>07/28/2016</u>	<u>810</u>	<u>-29</u>	<u>NE</u>	<u>5-10</u>	<u>69</u>	<u>29.95</u>	<u>88</u>
<u>07/28/2016</u>	<u>1605</u>	<u>-6</u>	<u>NE</u>	<u>5-10</u>	<u>68</u>	<u>29.95</u>	<u>73</u>

Notes:



Indoor Air Field Sampling Form

602 N. Capitol Avenue, Ste. 210,
 Indianapolis, IN 46204
 T: 317-972-7870 F: 317-972-7875

PROJECT NO. <u>6406</u> PROJECT NAME <u>OHM - Lincoln</u> SITE ADDRESS <u>2262 S. 108th St., West Allis</u> CLIENT/ CONTACT <u>Brian Cass</u>	SAMPLE ADDRESS <u>2248 S. 108th St., West Allis, WI</u> SAMPLE ID <u>6406-2248-JA-B</u> CANISTER ID _____ FLOW _____ CONTROLLER ID _____
--	---

Date Start/End mm/dd/yyyy	Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature ° F	Barometric Pressure In. of Hg	Relative Humidity %
<u>07/28/2016</u>	<u>8:50</u>	<u>-29</u>	<u>NE</u>	<u>5-10</u>	<u>71</u>	<u>29.95</u>	<u>83</u>
<u>07/28/2016</u>	<u>16:45</u>	<u>-7</u>	<u>NE</u>	<u>5-10</u>	<u>68</u>	<u>29.95</u>	<u>73</u>

Notes:



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Wayne Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

April 28, 2016

EnvisionAir Project Number: 2016-288
Client Project Name: 6406

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received April 13, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-288

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
16-1039	6406-2248-OA-1	A	4/6/16	6:53	4/6/16	14:58	4/13/16	11:45	-30	-5	-5
16-1040	6406-2248-IA-B	A	4/6/16	6:48	4/6/16	14:56	4/13/16	11:45	-30	-4.5	-4.5
16-1041	6406-2262-IA-1	A	4/6/16	6:57	4/6/16	15:06	4/13/16	11:45	-28	-3	-3



EnvisionAir
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www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6406

Client Project Manager: W. FASSBENDER

EnvisionAir Project Number: 2016-288

Analytical Method: TO-15
Analytical Batch: 041816CAIR

Client Sample ID: 6406-2248-OA-1

Sample Collection START Date/Time: 4/6/16 6:53

Sample Collection END Date/Time: 4/6/16 14:58

Envision Sample Number: 16-1039

Sample Received Date/Time: 4/13/16 11:45

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	< 3.19	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichlorethene	< 1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	121%		
Analysis Date/Time:	4-19-16/02:28		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6406

Client Project Manager: W. FASSBENDER

EnvisionAir Project Number: 2016-288

Analytical Method: TO-15
Analytical Batch: 041816CAIR

Client Sample ID: 6406-248-IA-B

Sample Collection START Date/Time: 4/6/16 6:48

Sample Collection END Date/Time: 4/6/16 14:56

Envision Sample Number: 16-1040

Sample Received Date/Time: 4/13/16 11:45

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	14.7	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichlorethene	< 1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	4-19-16/03:08		
Analyst Initials	tjg		



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Client Name: ENVIROFORENSICS

Project ID: 6406

Client Project Manager: W. FASSBENDER

EnvisionAir Project Number: 2016-288

Analytical Method: TO-15
Analytical Batch: 041816CAIR

Client Sample ID: 6406-2262-IA-1

Sample Collection START Date/Time: 4/6/16 6:57

Sample Collection END Date/Time: 4/6/16 15:06

Envision Sample Number: 16-1041

Sample Received Date/Time: 4/13/16 11:45

Sample Matrix: AIR

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	7.49	3.96	
Tetrachloroethene	312	31.9	1
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichlorethene	7.15	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	4-19-16/03:49		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 041816CAIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	113%		
Analysis Date/Time:	4-19-16/00:11		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
cis-1,2-Dichloroethene	10.7	10.2	10	107%	102%	4.8%	
Tetrachloroethene	9.59	9.62	10	96%	96%	0.3%	
trans-1,2-Dichloroethene	11.1	10.4	10	111%	104%	6.5%	
Trichlorethene	9.81	10	10	98%	100%	1.9%	
Vinyl Chloride	10.9	10.5	10	109%	105%	3.7%	
4-bromofluorobenzene (surrogate)	107%	108%					
Analysis Date/Time:	4-18-16/22:50	4-18-16/23:32					
Analyst Initials	tjg	tjg					



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Flag Number

1

Comments

Reported value is from a 10x dilution. TJG 4-27-16

WAF

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <u>EnviroForensics</u>	P.O. Number: <u>2016305</u>
Report Address: <u>N16 W23390 Stone Ridge Dr Waukesha, WI 53188</u>	Project Name or Number: <u>6406</u>
Report To: <u>W. Fassbender K. VanderHeiden</u>	Sampled by: <u>K. VanderHeiden</u>
Phone: <u>517 972 7870</u>	QA/QC Required: (circle if applicable) Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/>
Invoice Address:	Reporting Units needed: (circle) <input checked="" type="checkbox"/> µg/m³ <input type="checkbox"/> mg/m³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List	<input type="checkbox"/>
TO-15 Short List	<input type="checkbox"/>



Sampling Type:
 Soil-Gas:
 Sub-Slab:
 Indoor-Air:

www.envision-air.com

Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6406-2248-OA-1	6LC	4/6	0653	4/6	1458	X				4687	07256	-30	-5	-5	16-1039
6406-2248-IA-B	6LC	4/6	0648	4/6	1456	<				19625	05248	-30	-4.5	-4.5	16-1040
6406-2262-IA-1	6LC	4/6	0657	4/6	1506	X				17896	05308	-28	-3	-3	16-1041

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	4/7/16	0900	Fed Ex <u>[Signature]</u>	4/13/16	1145



EnvisionAir
1441 Sadlier Circle West Drive
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www.envision-air.com

Mr. W. Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 11, 2016

EnvisionAir Project Number: 2016-472
Client Project Name: 6406 / OHM-Lincoln

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received August 2, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-472

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
16-1701	6406-2262-IA-1	A	7/28/16	8:00	7/28/16	16:00	8/2/16	11:00	-29	-8	-8
16-1702	6406-OA-1	A	7/28/16	8:10	7/28/16	16:05	8/2/16	11:00	-29	-6	-6



EnvisionAir
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Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-472

Analytical Method: TO-15
Analytical Batch: 080416AIR

Client Sample ID: 6406-2262-IA-1
Envision Sample Number: 16-1701
Sample Matrix: AIR

Sample Collection START Date/Time: 7/28/16 8:00
Sample Collection END Date/Time: 7/28/16 16:00
Sample Received Date/Time: 8/2/16 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	< 3.19	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	119%		
Analysis Date/Time:	8-5-16/16:04		
Analyst Initials	tjg		



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 1441 Sadlier Circle West Drive
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 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-472

Analytical Method: TO-15
Analytical Batch: 080416AIR

Client Sample ID: 6406-OA-1
Envision Sample Number: 16-1702
Sample Matrix: AIR

Sample Collection START Date/Time: 7/28/16 8:10
Sample Collection END Date/Time: 7/28/16 16:05
Sample Received Date/Time: 8/2/16 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	< 3.19	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	115%		
Analysis Date/Time:	8-5-16/14:04		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 080416AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	109%		
Analysis Date/Time:	8-5-16/12:52		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.2	10.4	10	102%	104%	1.9%	
trans-1,2-Dichloroethene	9.74	9.78	10	97%	98%	0.4%	
cis-1,2-Dichloroethene	10.2	10.2	10	102%	102%	0.0%	
Trichloroethene	9.22	9.23	10	92%	92%	0.1%	
Tetrachloroethene	9.93	9.92	10	99%	99%	0.1%	
4-bromofluorobenzene (surrogate)	106%	106%					
Analysis Date/Time:	8-5-16/11:34	8-5-16/12:17					
Analyst Initials	tjg	tjg					



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Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Flag Number

Comments

CHAIN OF CUSTODY RECORD

LOPF

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <u>EnviroForensics</u>	P.O. Number: <u>2016 757</u>
Report Address: <u>N16 W23890 Storm Ridge Dr Ste. G. Waukesha WI 53188</u>	Project Name or Number: <u>6406 OHM-Lincoln</u>
Report To: <u>W. Fassbender / K. Heimstaed</u>	Sampled by: <u>K. Heimstaed</u>
Phone: <u>317-972-7870</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) <u>ug/m³</u> mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>5 bus. days</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List Dry Clean



Sampling Type:
 Soil-Gas:
 Sub-Slab:
 Indoor-Air:

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Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
<u>6406-2262-IP-1</u>	<u>6LC</u>	<u>7/28/16</u>	<u>800</u>	<u>7/28/16</u>	<u>1600</u>					<u>11672</u>	<u>05249</u>	<u>-29</u>	<u>-8</u>	<u>-8</u>	<u>16-1701</u>
<u>6406-OA-1</u>	<u>6LC</u>	<u>7/28/16</u>	<u>810</u>	<u>7/28/16</u>	<u>1605</u>					<u>19627</u>	<u>07310</u>	<u>-29</u>	<u>-6</u>	<u>-6</u>	<u>16-1702</u>

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	<u>8/1/16</u>		<u>FEDEX</u>	<u>8/1/16</u>	
			<u>[Signature]</u>	<u>8/2/16</u>	<u>1100</u>



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. W. Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 11, 2016

EnvisionAir Project Number: 2016-473
Client Project Name: 6406 / OHM-Lincoln

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received August 2, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
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 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-473

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Lab</u>	
		<u>Date</u>	<u>Time</u>								<u>Received</u>
16-1703	6406-2248-IA-B	A	7/28/16	8:50	7/28/16	16:45	8/2/16	11:00	-29	-7	-7



EnvisionAir
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 Indianapolis, IN 46239
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Client Name: ENVIROFORENSICS
Project ID: 6406 / OHM-LINCOLN
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-473

Analytical Method: TO-15
Analytical Batch: 080416AIR

Client Sample ID: 6406-2248-IA-B
Envision Sample Number: 16-1703
Sample Matrix: AIR

Sample Collection START Date/Time: 7/28/16 8:50
Sample Collection END Date/Time: 7/28/16 16:45
Sample Received Date/Time: 8/2/16 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 3.96	3.96	
Tetrachloroethene	4.34	3.19	
trans-1,2-Dichloroethene	< 3.96	3.96	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 0.64	0.64	
4-bromofluorobenzene (surrogate)	112%		
Analysis Date/Time:	8-5-16/16:45		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 080416AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	109%		
Analysis Date/Time:	8-5-16/12:52		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	10.2	10.4	10	102%	104%	1.9%	
trans-1,2-Dichloroethene	9.74	9.78	10	97%	98%	0.4%	
cis-1,2-Dichloroethene	10.2	10.2	10	102%	102%	0.0%	
Trichloroethene	9.22	9.23	10	92%	92%	0.1%	
Tetrachloroethene	9.93	9.92	10	99%	99%	0.1%	
4-bromofluorobenzene (surrogate)	106%	106%					
Analysis Date/Time:	8-5-16/11:34	8-5-16/12:17					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

CHAIN OF CUSTODY RECORD

WAF

EnvisionAir | 1441 Sadler Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <u>EnviroForensics</u>	P.O. Number: <u>2016757</u>
Report <u>NIG W23390 Stone Ridge Dr</u> Address: <u>Stc 5</u> <u>Waukesha WI 53188</u>	Project Name or Number: <u>6406</u> <u>0117- Lincoln</u>
Report To: <u>W. Fassbender /</u> <u>K. Heimstead</u>	Sampled by: <u>K. Heimstead</u>
Phone: <u>317-972-7870</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) µg/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List Dry Ureter



Sampling Type:
 Soil-Gas:
 Sub-Slab:
 Indoor-Air:

www.envision-air.com

Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
<u>6406-2248-1A-B</u>	<u>6LC</u>	<u>7/28/16</u>	<u>850</u>	<u>7/28/16</u>	<u>1645</u>	<u>X</u>				<u>10347</u>	<u>9934-4</u>	<u>-29</u>	<u>-7</u>	<u>-7</u>	<u>16-1703</u>

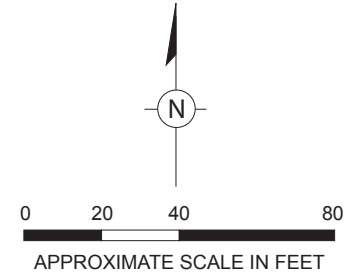
Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	<u>8/1/16</u>		<u>FedEx</u>	<u>8/1/16</u>	
			<u>[Signature]</u>	<u>8/2/16</u>	<u>1100</u>



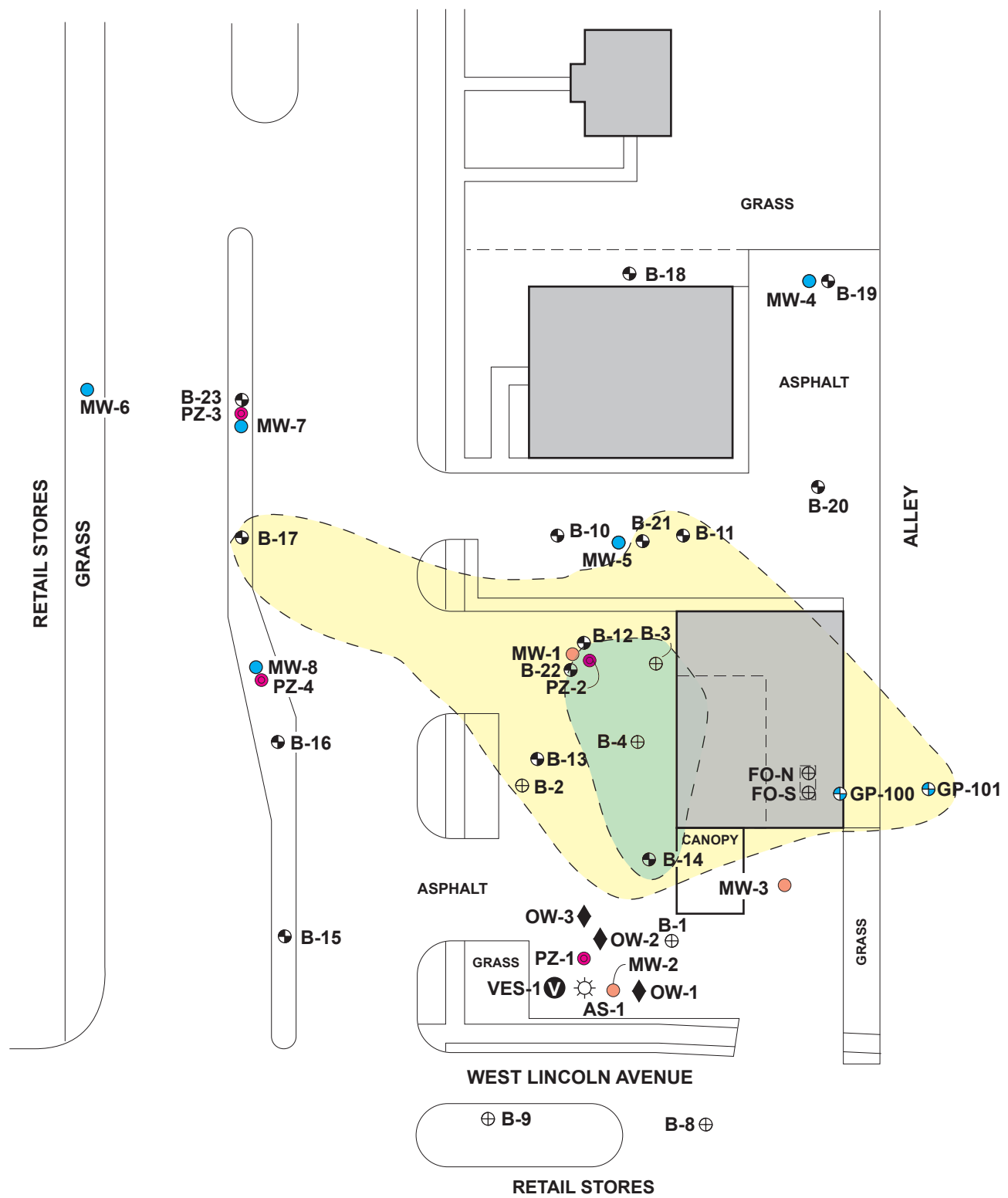
ATTACHMENT 5

ARCADIS Figure and Table



LEGEND

- MONITORING WELL LOCATION (MW-1 to MW-3)
(Installed by Giles Engineering Associates 4/94)
- ⊕ SOIL BORING LOCATION (B-1 TO B-9)
(Drilled by Giles Engineering Associates 4/94)
- ⊕ GEOPROBE LOCATION (B-10 TO B-22)
(Drilled by Geraghty & Miller, Inc. 1995-1996)
- MONITORING WELL LOCATION (MW-4 to MW-8)
(Installed by Geraghty & Miller, Inc. 1995-1996)
- PIEZOMETER LOCATION (PZ-1 to PZ-4)
(Installed by Geraghty & Miller, Inc. 1995-1996)
- Ⓧ VAPOR EXTRACTION WELL LOCATION (VES-1)
(Installed by Geraghty & Miller, Inc. 1996)
- ◆ VAPOR MONITORING PROBE LOCATION (OW-1 to OW-3)
(Installed by Geraghty & Miller, Inc. 1996)
- ☀ AIR SPARGING WELL LOCATION (AS-1)
(Installed by Geraghty & Miller, Inc. 1996)
- ⊕ GEOPROBE LOCATION (GP-100 to GP-101)
(Installed by ARCADIS 2012)
- EXTENT OF HYDROCARBONS IN SOIL EXCEEDING THE NON-INDUSTRIAL DIRECT CONTACT RCL
- EXTENT OF HYDROCARBONS IN SOIL EXCEEDING THE GROUNDWATER PROTECTION RCL



SUCCESS, INC. ONE HOUR MARTINIZING WEST ALLIS, WISCONSIN	
PRE-REMEDIAL SOIL CONTAMINATION	
	FIGURE B.2.a

05MAY14:ENVIRONMENTAL:MB
 SUCCESS\W0494\SUCCESS\GRAPHICS\PREREMEDIAL_SOIL_CONTAMINATION_0514.A1

A.2 Pre-remedial Soil Analytical Table, Success Property (One Hour Maritizing), West Allis, WI

Boring I.D. No.	NR 720	NR 720	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Sample Depth (feet)	NIDC	GWP	10-12	7.5-9	7.5-9	5-7	7.5-9	5-7	7.5-9	5-7
Saturated Sample?			Yes	Yes	Yes	No	Yes	No	Yes	No
Date Collected	RCL	RCL	4-19-94	4-19-94	4-19-94	4-19-94	4-19-94	4-19-94	4-19-94	4-19-94
VOCs (µg/kg)										
Benzene	1490	2.6	<1.3	3.4	<150	<1,400	<1.2	<1.2	<1.1	<1.2
n-Butylbenzene	108000	NL	NA	NA	17,000	NA	NA	NA	NA	NA
sec-Butylbenzene	145000	NL	NA	NA	340	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156000	NL	NA	NA	<410	NA	NA	NA	NA	NA
Ethylbenzene	7,470	785	<1.3	45	<200	2,000	<1.2	<1.2	<1.1	<1.2
Isopropylbenzene	NL	NL	NA	NA	400	NA	NA	NA	NA	NA
p-Isopropyltoluene	162000	NL	NA	NA	520	NA	NA	NA	NA	NA
Methyl tert-butyl ether	59400	13.5	<1.3	1.4	23,000	<1,400	<1.2	<1.2	<1.1	<1.2
Naphthalene	5150	329.4	NA	NA	10,000	NA	NA	NA	NA	NA
n-Propylbenzene	NL	NL	NA	NA	460	NA	NA	NA	NA	NA
Tetrachloroethene	30700	2.3	NA	NA	14,000	NA	NA	NA	NA	NA
Toluene	818,000	554	<1.3	<1.3	<200	<1,400	<1.2	<1.2	<1.1	<1.2
Trichloroethene	644	27.5	NA	NA	270	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	89800	NL	<1.3	2.3	2,500	25,000	<1.2	<1.2	<1.1	<1.2
1,3,5-Trimethylbenzene	182000	NL	<1.3	<1.3	5,900	8,700	<1.2	<1.2	<1.1	<1.2
Total trimethylbenzenes	NL	689.7	<2.6	2.3	8400	33,700	<2.4	<2.4	<2.2	<2.4
Total xylenes	4,100	1,970	<2.6	77	10,300	9,000	<2.4	<2.3	<2.3	<2.4
Other Analyses (mg/kg)										
Gasoline Range Organics	NL	NL	6.3	47	200	12	27	31	7.8	<6.1
Diesel Range Organics	NL	NL	NA	NA	9,500	NA	NA	NA	NA	NA
Lead	400	13500	19	22	54	22	19	19	19	19

Only those compounds detected in a sampling round of analysis are shown.

The all-time low groundwater table, used to evaluate whether soil samples were saturated, is 8.97 feet below land surface.

RCL Residual Contaminant Level.

VOC Volatile organic compound.

µg/kg Micrograms per kilogram; equivalent to parts per billion (ppb).

mg/kg Milligrams per kilogram; equivalent to parts per million (ppm).

< Indicates not detected. If present the concentration is below the method detection limit (the numerical value following the < symbol).

NA Not analyzed for this parameter.

NL No RCL established.

NIDC Non-Industrial Direct Contact

GWP Groundwater Protection

100 Concentration exceeds the GWP

1000 Concentration exceeds the NIDC

A.2 Pre-remedial Soil Analytical Table, Success Property (One Hour Maritizing), West Allis, WI

Boring I.D. No.	B-9	B-10	B-11	B-12	B-12	B-13	B-14	B-15	B-16	B-17
Sample Depth (feet)	7.5-9	6-8	6-8	8-10	22-24	6-8	8-10	6-8	6-8	8-10
Saturated Sample?	Yes	No	No	Yes	Yes	No	Yes	No	No	Yes
Date Collected	4-19-94	8-18-95	8-18-95	8-18-95	8-18-95	8-18-95	8-18-95	8-18-95	8-18-95	8-18-95
VOCs (µg/kg)										
Benzene	<1.2	<25	<500	<2,500	<25	<25	9,800	<25	<25	<25
n-Butylbenzene	NA	<25	<500	<2,500	<25	<25	20,000	<25	<25	<25
sec-Butylbenzene	NA	<25	<500	<2,500	<25	<25	<5,000	<25	<25	<25
cis-1,2-Dichloroethene	NA	30	<500	<2,500	<25	<25	<5,000	<25	<25	<25
Ethylbenzene	<1.2	<25	<500	<2,500	<25	64	23,000	<25	<25	<25
Isopropylbenzene	NA	<25	<500	<2,500	<25	<25	<5,000	<25	<25	<25
p-Isopropyltoluene	NA	<25	<500	<2,500	<25	<25	<5,000	<25	<25	<25
Methyl tert-butyl ether	<1.2	<25	<500	<2,500	<25	<25	<5,000	<25	<25	<25
Naphthalene	NA	<25	<500	<2,500	54	<25	9,800	<25	<25	<25
n-Propylbenzene	NA	<25	<500	<2,500	<25	31	9,300	<25	<25	<25
Tetrachloroethene	NA	<25	13,000	12,000	<25	<25	<5,000	<25	<25	81
Toluene	<1.2	<25	<500	<2,500	<25	39	9,100	<25	<25	<25
Trichloroethene	NA	<25	<500	<2,500	<25	<25	<5,000	<25	<25	<25
1,2,4-Trimethylbenzene	<1.2	<25	<500	3,900	<25	<25	57,000	<25	<25	<25
1,3,5-Trimethylbenzene	<1.2	<25	<500	<2,500	<25	<25	19,000	<25	<25	<25
Total trimethylbenzenes	<2.4	<50	<1000	3900	<50	<50	76000	<50	<50	<50
Total xylenes	<2.4	<25	<500	<2,500	<25	72	120,000	<25	<25	<25
Other Analyses (mg/kg)										
Gasoline Range Organics	4.9	<1.2	2.4	2.2	NA	34	240	<1.1	<1.1	<1.2
Diesel Range Organics	NA	<6.0	<5.9	<6.0	NA	NA	NA	NA	NA	NA
Lead	21	NA	NA	NA	NA	NA	NA	NA	NA	NA

Only those compounds detected in a sampling round of analysis are shown.

The all-time low groundwater table, used to evaluate whether soil samples were saturated, is 8.97 feet below land surface.

RCL Residual Contaminant Level.

VOC Volatile organic compound.

µg/kg Micrograms per kilogram; equivalent to parts per billion (ppb).

mg/kg Milligrams per kilogram; equivalent to parts per million (ppm).

< Indicates not detected. If present the concentration is below the method detection limit (the numerical value following the < symbol).

NA Not analyzed for this parameter.

NL No RCL established.

NIDC Non-Industrial Direct Contact

GWP Groundwater Protection

100 Concentration exceeds the GWP

1000 Concentration exceeds the NIDC

A.2 Pre-remedial Soil Analytical Table, Success Property (One Hour Maritizing), West Allis, WI

Boring I.D. No.	B-18	B-19	B-20	B-21	B-21	B-22	B-22	B-23	MW-6	PZ-3
Sample Depth (feet)	6-8	6-8	6-8	4-6	6-8	2-4	6-8	4-6	4-6	4-6
Saturated Sample?	No	No	No	No	No	No	No	No	No	No
Date Collected	2-8-96	2-8-96	2-8-96	2-8-96	2-8-96	2-8-96	2-8-96	2-8-96	3-1-96	5-21-96
VOCs (µg/kg)										
Benzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methyl tert-butyl ether	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	<25	<25	<25	49	<25	3,700	46,000	<25	<25	<25
Toluene	44	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	<25	<25	<25	<25	<25	62	150	<25	<25	<25
1,2,4-Trimethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Total trimethylbenzenes	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Total xylenes	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Other Analyses (mg/kg)										
Gasoline Range Organics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Only those compounds detected in a sampling round of analysis are shown.

The all-time low groundwater table, used to evaluate whether soil samples were saturated, is 8.97 feet below land surface.

RCL Residual Contaminant Level.

VOC Volatile organic compound.

µg/kg Micrograms per kilogram; equivalent to parts per billion (ppb).

mg/kg Milligrams per kilogram; equivalent to parts per million (ppm).

< Indicates not detected. If present the concentration is below the method detection limit (the numerical value following the < symbol).

NA Not analyzed for this parameter.

NL No RCL established.

NIDC Non-Industrial Direct Contact

GWP Groundwater Protection

100 Concentration exceeds the GWP

1000 Concentration exceeds the NIDC

A.2 Pre-remedial Soil Analytical Table, Success Property (One Hour Maritizing), West Allis, WI

Boring I.D. No.	PZ-4	VES-1	GP-100	GP-100	GP-101
Sample Depth (feet)	4-6	5-7	4-6	6-8	6-8
Saturated Sample?	No	No	No	No	No
Date Collected	5-21-96	2-28-96	3-2/12	3-2/12	3-2/12
VOCs (µg/kg)					
Benzene	<25	<25	<27	<27	<29
n-Butylbenzene	<25	<25	<27	<27	<29
sec-Butylbenzene	<25	<25	<27	<27	<29
cis-1,2-Dichloroethene	<25	<25	<27	<27	<29
Ethylbenzene	<25	<25	<27	<27	<29
Isopropylbenzene	<25	<25	<27	<27	<29
p-Isopropyltoluene	<25	<25	<27	<27	<29
Methyl tert-butyl ether	<25	<25	<27	<27	<29
Naphthalene	<25	<25	<55	<55	<59
n-Propylbenzene	<25	<25	<27	<27	<29
Tetrachloroethene	<25	<25	2200	2200	86J
Toluene	<25	<25	<27	<27	<29
Trichloroethene	<25	<25	<27	<27	<29
1,2,4-Trimethylbenzene	<25	<25	<27	<27	<29
1,3,5-Trimethylbenzene	<25	<25	<27	<27	<29
Total trimethylbenzenes	<50	<50	<54	<54	<58
Total xylenes	<25	<25	<82	<82	<88
Other Analyses (mg/kg)					
Gasoline Range Organics	NA	<6.9	NA	NA	NA
Diesel Range Organics	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA

Only those compounds detected in a sampling round of analysis are shown.

The all-time low groundwater table, used to evaluate whether soil samples were saturated, is 8.97 feet below land surface.

RCL Residual Contaminant Level.

VOC Volatile organic compound.

µg/kg Micrograms per kilogram; equivalent to parts per billion (ppb).

mg/kg Milligrams per kilogram; equivalent to parts per million (ppm).

< Indicates not detected. If present the concentration is below the method detection limit (the numerical value following the < symbol).

NA Not analyzed for this parameter.

NL No RCL established.

NIDC Non-Industrial Direct Contact

GWP Groundwater Protection

100 Concentration exceeds the GWP

1000 Concentration exceeds the NIDC