December 16, 2021

Property Located at:

223 Alfred Street, Athens, WI

FID #: 737203390

### WDNR BRRTS #: 02-37-536610

Parcel Identification #: 102-3004-314-1097

### **Introduction**

This document is the Maintenance Plan for a Vapor Mitigation System at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to the existing sub-slab vapor depressurization system (SSDS) which addresses or occupies the area over the contaminated groundwater plume or soil.

More site-specific information about this property/site may be found in:

- The case file in the DNR West Central Region office.
- At <u>http://dnr.wi.gov/topic/Brownfields/wrrd.html</u>, which includes:
  - BRRTS on the Web (DNR's internet-based data base of contaminated sites) for the link to a PDF for site-specific information at the time of closure and on continuing obligations.
  - RR Sites Map for a map view of the site.
- The DNR project manager for Marathon County.

### **Description of Contamination**

Soil contaminated by chlorinated compounds (primarily tetrachloroethylene [PCE]) is located at a depth of 2 feet to 20 feet below ground surface located on the subject property and extending to south into Mueller Street/State Highway 97 right of way. Groundwater contaminated by chlorinated compounds (primarily PCE) is located at a depth of 14 feet to 45 feet below ground surface. The extent of the soil and groundwater contamination is shown on the attached Figure 2 – Site Map.

### **Description of the Vapor Mitigation System to be Maintained**

The Vapor Mitigation System consists of one (1) sub-slab depressurization system (SSDS) installed at 223 Alfred Street, Athens, WI. The SSDS utilizes Schedule 40, 3" PVC pipe and Obar GBR76 SOE intrinsically safe fan.

The SSDS includes (1) the collection point, (2) interior piping, (3) intrinsically safe fan, and (4) manometer/pressure gauge. The collection point consists of one hundred thirty (130) feet of four (4) inch perforated drain tile wrapped in a silt sock installed beneath the concrete slab. The sub slab drain tile extends the Pressure Field Extension (PFE) below the concrete slab with less invasive piping above the floor. The interior piping includes one (1) 3" PVC pipe extending from the collection point through the foundation and into the attic/crawl space of the building. The pipe runs horizontally approximately 3' then runs vertically and penetrates the roof. The piping between the foundation and the attic/crawl space is located within an interior wall between a bathroom and the utility room. The roof penetration is sealed on the roof and is secured using the GBR roof mount and Pipe Pier Foam Mounts to reduce potential vibrations throughout the building. The manometer/pressure gauge is located in the utility room mounted to a wall.

The subject property location is shown on the attached Figure 1. The vapor mitigation system is shown on the attached Figure 2.

A copy of the S.W.A.T. Environmental - Operation and Maintenance Plan / Post Installation Report is attached.

### Vapor Mitigation System Purpose

The Vapor Mitigation System installed at the subject property serves to actively prevent direct human contact with CVOC vapor due to off gas from documented residual soil and groundwater contamination that might otherwise pose a threat to human health.

### **Annual Inspection**

The Vapor Mitigation System installed at the subject property designed to actively remove the vapor pathway for chlorinated compounds from entering the Forward Bank building as depicted in Figure 2, will be inspected at least once a year. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate the fan and pressure gauge to ensure the system is operational.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-321, Vapor Mitigation System Inspection Log. The log will include recommendations for necessary repair of the Vapor Mitigation System. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site and available for submittal or inspection by Wisconsin Department of Natural Resources (DNR) representatives upon their request.

### **Maintenance** Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs would be necessary if the following items <u>are not</u> found satisfactory during inspection:

- The fan is running and is not making screeching noise, grinding, hot or vibrating abnormally.
- The manometer is present and there is sufficient vacuum.
- A static pressure reading was taken and recorded in the table.
- The collection point is intact, without cracks or missing sealant.
- Piping is intact and free of cracks. No joints loose or open.
- Fire collars and intumescent fire caulk is intact.
- The piping remains securely bracketed or secured.
- The circuit breaker is functional and is switched to the "On" position.
- The wiring to the fan is intact and free of damage.
- The fan is securely connected to the power source.
- The flexible rubber couplings are free from cracks or damage.
- The system is free of signs of weather damages or vandalism.

Any replacement of the Vapor Mitigation System or portions of the system will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the Vapor Mitigation System will maintain a copy of this Maintenance Plan at the site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Notification to WDNR if any problems occur for two (2) or mor successive inspections.

### Prohibition of Activities and Notification of DNR Prior to Actions Affecting a

### Vapor Mitigation System

The following activities are prohibited on any portion of the property where a Vapor Mitigation System required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources:

1) change in use of a vapor mitigation system.

2) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

3) changing the use or occupancy of the property to single-family residential use.

4) changing the construction of a building that has a vapor mitigation system in place.

If removal, replacement, or other changes to a Vapor Mitigation System are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

### Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of DNR.

### **Contact Information**

### Site Owner and Operator:

Forward Bank Branch Manager 225 Alfred Street Athens, WI 54411 715-257- 2900

### **Environmental Consultant:**

REI Engineering, Inc. Brian Bailey 4080 North 20<sup>th</sup> Avenue Wausau, WI 54401 715-675-9784

### **Regulatory Contact:**

WDNR – Remediation and Redevelopment Program (West Central Region) Matt Thompson 1300 W. Clairemont Avenue Eau Claire, WI 54701 715-839-3700

SWAT Group Inc. 411 E. Wisconsin Ave. Suite 1280 Milwaukee, WI 53202



Midwest Region Headquarters 16680 W Cleveland Ave, STE C New Berlin, WI 53151 Office: 262-754-2211 www.swat-radon.com

7/12/2021

We are pleased to provide you with an Operation and Maintenance Plan/Post installation Report for (1) sub-slab depressurization systems (SSDS) installed at the following address:

223 Alfred St, Athens, Wisconsin, 54411

One sub-slab depressurization system was installed at the property located at 223 Alfred St, Athens, WI 54411. The system utilizes Schedule 40, 3" PVC pipe and Obar GBR76 SOE intrinsically safe fan.

One interior system is routed inside the wall in the men's bathroom, Northeast corner. The system continues into the attic/crawlspace of the building and is routed horizontally North of the building an additional 3', then runs vertical and penetrates the roof. The roof penetration is sealed water type with compatible roof boots. The GBR76 is located on the roof and is secured using the compatible GBR roof mount and Pipe Pier Foam Mounts to reduce potential vibrations throughout the building. The collection point consists of 130' of 4" perforated drain tile wrapped in a silt sock. The sub slab drain tile extends our Pressure Field Extension (PFE) below the slab with less invasive piping above the floor.

This OM&M/Post Installation Report does not include information regarding electrical work. Electrical work was performed by a third-party electrician that was not supplied by SWAT Environmental. Please refer to electricians who performed work if maintenance needs to be performed on those components of the system.

PFE testing was done at the property to ensure that the sub-slab has been depressurized. A total of 4 tests were performed and recorded on the attached floor plan.

Test Point #1- Located in SW corner of office room 105 (see attached diagram) Results: -1.868" W.CTest Point #2- Located in center of workroom 106 (see attached diagram)Results: -0.237" W.CTest Point #3- Located in SW corner of the breakroom 112 (see attached diagram)Results: -0.567" W.CTest Point #4- Located in SE corner of office room 115 (see attached diagram)Results: -0.336" W.C

All test locations show strong negative pressure readings indicating that the sub-slab is depressurized.

All workmanship is warranted for 5 years from date of completion 5/20/2021 Expires 5/20/2026The GBR 76SOE is warranted for 3 years from date of purchase 4/12/2021 Expires 4/12/2024

The contents of this Operation and Maintenance Plan should be followed diligently, with periodic visual inspections of the fans and pressure gauges. We recommend recording the static pressure quarterly. All systems have a visual pressure gauge attached to the interior section of piping.

Questions regarding this Operation and Maintenance Plan, or any system abnormalities or malfunctions, shall be directed to:

SWAT Group Inc., Midwest Region (262) 754-2211 swatenv@swat-radon.com

Air quality retesting and a service call should occur in the event of major structural change or nearby construction work (primarily blasting), particularly any type of work in which the foundation is breached or expanded.

Thank you for your attention to these procedural recommendations. We sincerely appreciate your business.

Sincerely,

Deouge Boot

George Booth, Regional Tech Manager, Midwest Region

### SUB SLAB SYSTEM OPERATION

Operation:Vapor mitigation systems are designed to operate 24 hours per day, 7 days per week, except for brief<br/>periods of time when the system may be disconnected from the power source, de-energized, and locked out<br/>for routine maintenance or service.Activation:A sub-slab depressurization system is activated when the circuit breaker is active and the mitigation fan is<br/>plugged into a duplex GFCI receptacle, or directly hard wired. Activations are to be conducted by or with<br/>a mitigation professional. Under no circumstances is this system to be disconnected or deactivated<br/>permanently without first contacting an AARST/NRPP Certified Vapor Mitigation Professional.Deactivation:A sub-slab depressurization system may be safely deactivated by first disconnecting the mitigation fan from<br/>the duplex GFCI receptacle and placing a protective cover over the male plug to prevent it from being<br/>reinserted and then flipping the circuit breaker to the off position. We recommend securing a lockout cover<br/>which identifies the system is being serviced and prevents the breaker from being re-activated.

### SSDS DIAGNOSTIC REFERENCE

A SSDS should be inspected once every three (3) months for operation, and a static pressure reading taken and recorded. There are some instances when an AARST/NRPP Certified Mitigation Professional should be contacted as soon as possible:

- The mitigation fan is not operational, or the Manometer is registering outside of the recommended operating range. (<<.0" W>C to 16" W.C for GBR 76 SOE fan>>). First check the electrical connection and make sure that the circuit breaker is set to "on".
- 2. The mitigation fan is vibrating abnormally (beyond the subtle vibration of normal operation), is making a "screeching" or "grinding" sound, or, is unusually hot to the touch.
- 3. The electrical wire has been damaged or altered, or the fan has been vandalized or is no longer present.
- 4. There are visible cracks in the suction line or vent stack piping, or piping is no longer structurally supported.
- 5. There are visible cracks in or missing material from the seal where the suction line enters the collection chamber.
- 6. Major structural changes have been made to the building, or construction has occurred which affects the foundation.
- 7. In the event the property has changed ownership, warranties may be transferred to the new owner without additional charge.

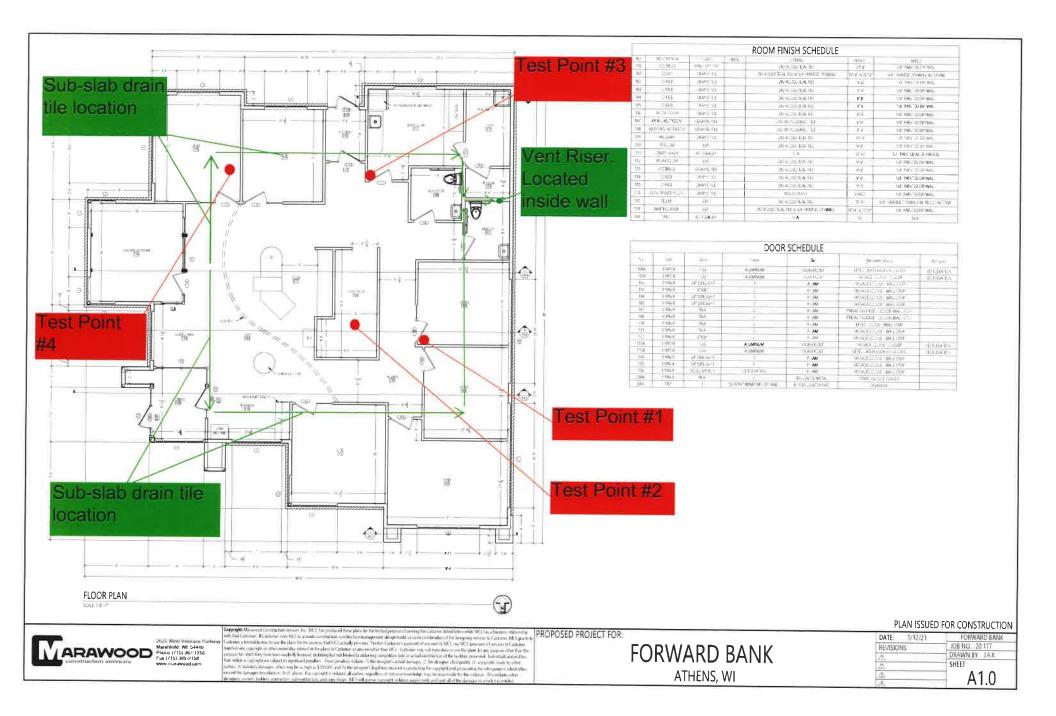
SOUST ON THE STATION STUTEWICOWIT ONLINES AIND SETTINGS	SSDS: ORIGINAL STARTUP SYSTEM	COMPONENTS AND SETTINGS
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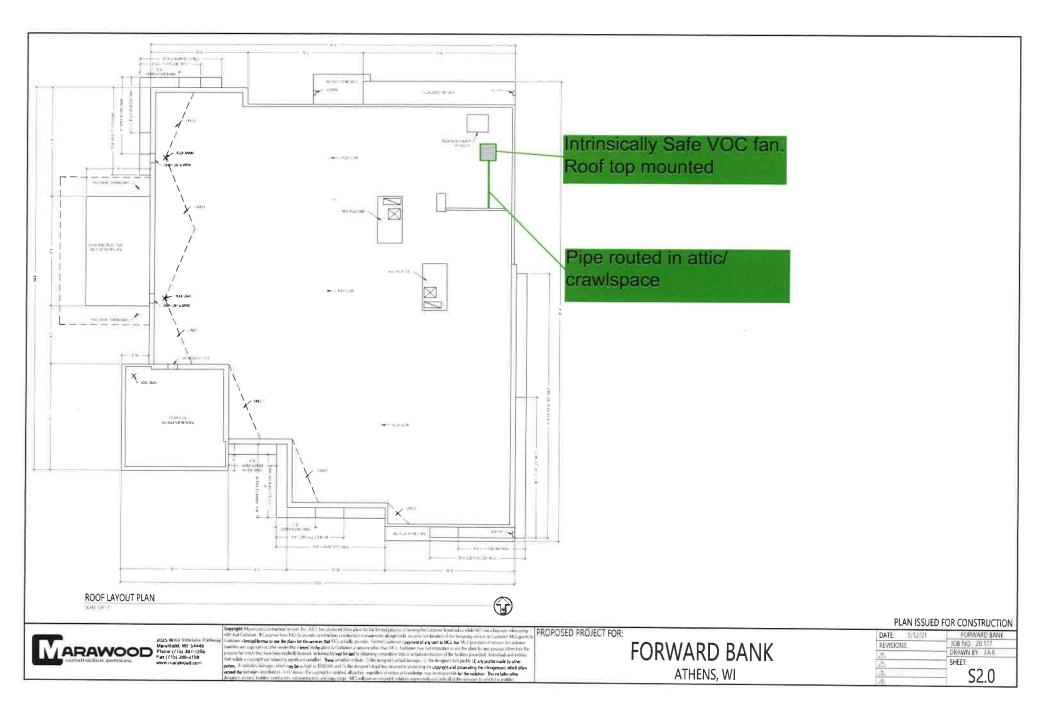
System#/Unit	223Alfred St, WI 54411				
Pressure Gauge	Utility room (111)				
Location Fan Model	GBR 76				
	SOE				
Fan Location	Rooftop Fan location				
Original Fan WC"	3.0" W.C				

Year		Qtr 1	Qtr 2	Qtr 3	Qtr 4				
Sys. #1	Monitor WC"								
	Sealed Items								
	Piping/Labels								
	Noted concerns								
	Last Radon Test (at least every 2 years)								
Sys. #2	Monitor WC"	·							
	Sealed Items								
	Piping/Labels								
	Noted concerns								
	Last Radon Test (at least every 2 years)								
Sys. #3	Monitor WC"								
	Sealed Items								
	Piping/Labels								
	Noted concerns								
	Last Radon Test (at least every 2 years)								
Sys. #4	Monitor WC"								
	Sealed Items								
	Piping/Labels								
	Noted concerns			1					
	Last Radon Test (at least every 2 years)								

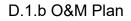
### SSDS INSPECTION/MAINTENANCE LOG EXAMPLE

Fill in the Date and Initial Each Category	DATES →				
MAINTENANCE ITEM	IS				 
The mitigation fan is running a "screeching" or hot.					
The manometer is present and sufficient W.C.					
A static pressure reading was recorded in the table.					
The collection chamber is intac cracks or missing sealant.					
Piping is intact and free of cracks. are loose or open.					
Fire collars and intumescent fire cau					
The piping remains securely bra secured.					
The circuit breaker is function switched to the "On" position.					
The wiring to the fan is intact as damage.					
The fan is securely connected to source.	the power				
The flexible rubber couplings are cracks or damage.					
The system is free of signs of weath or vandalism.	er damage				







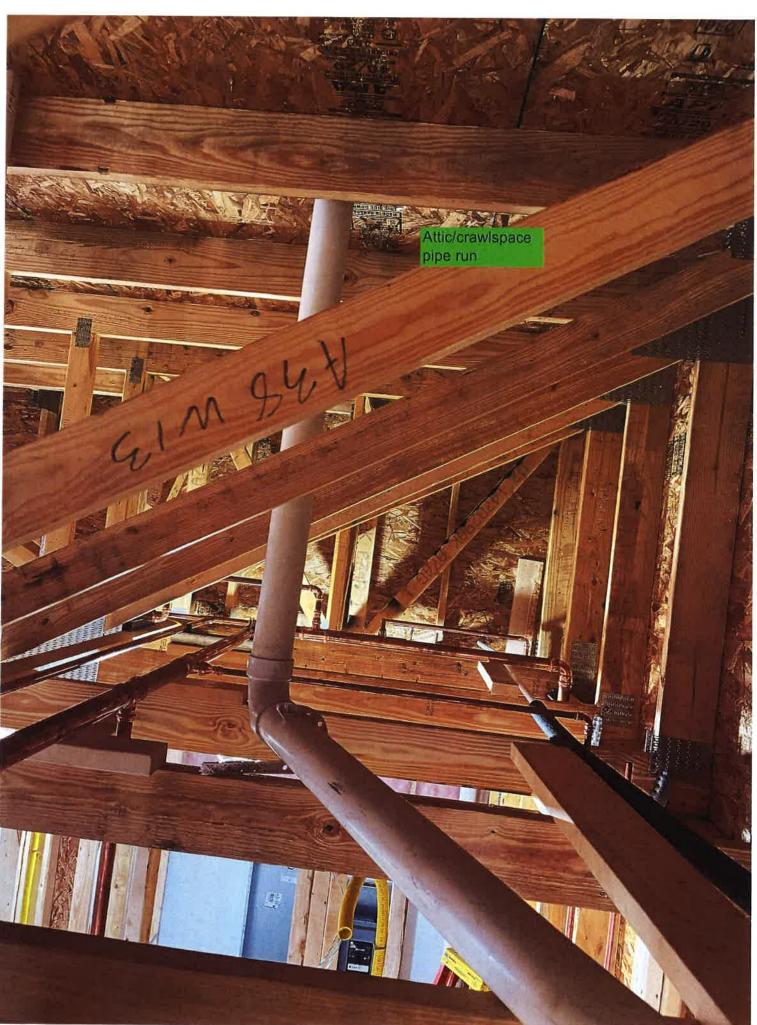


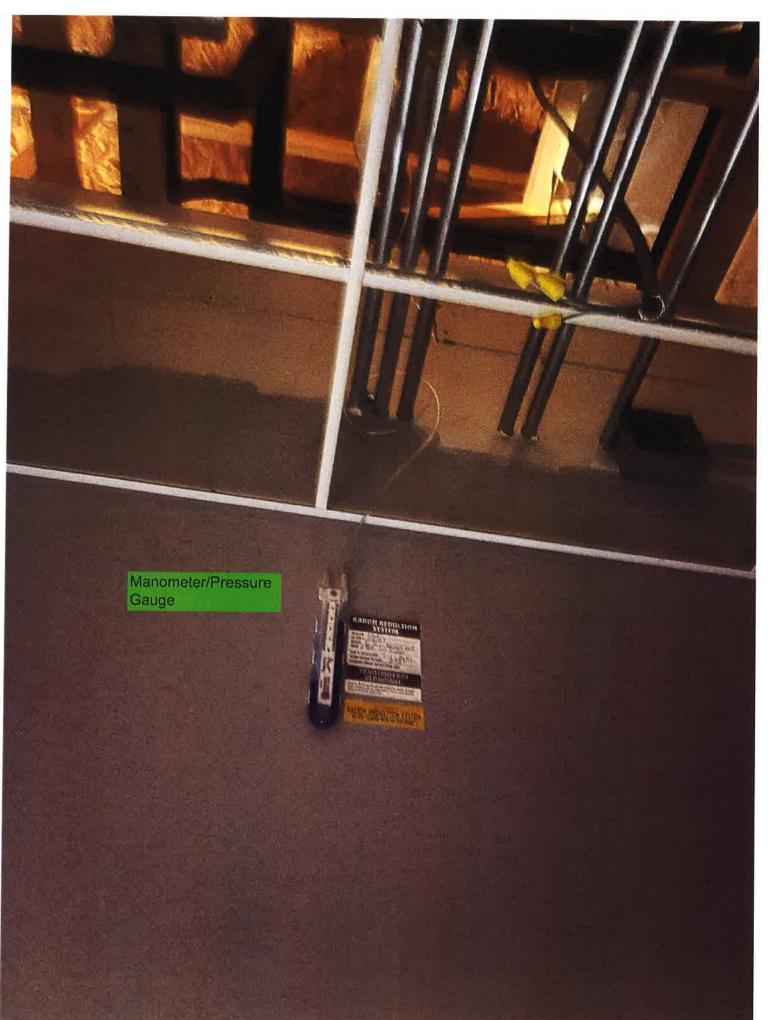


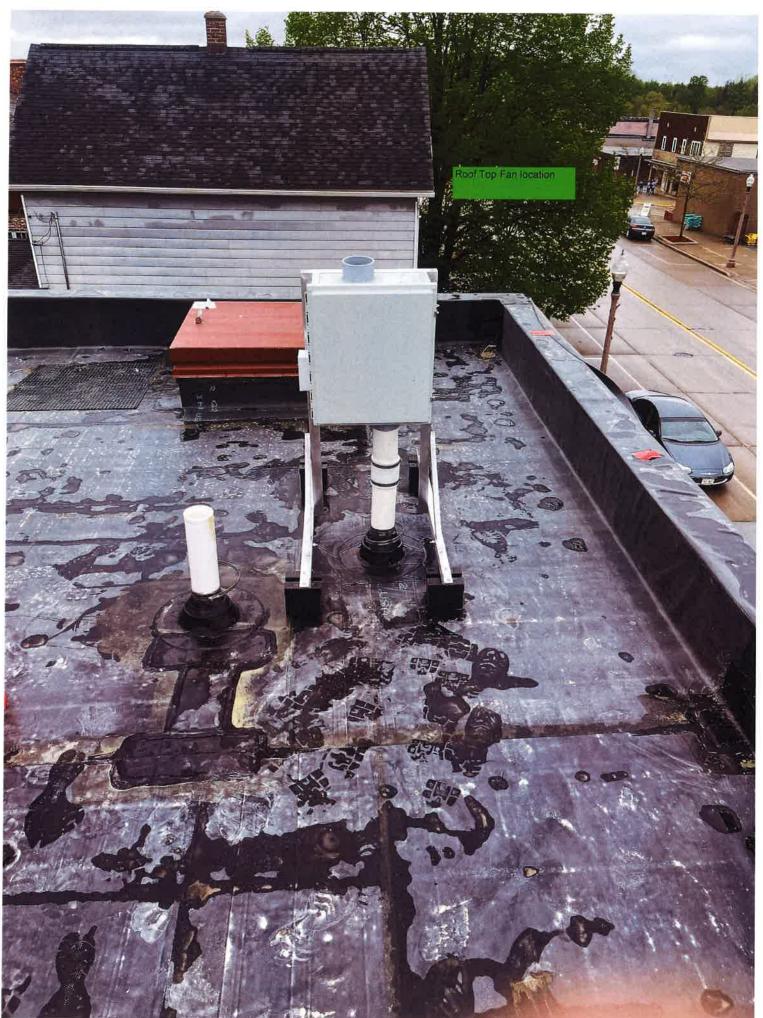




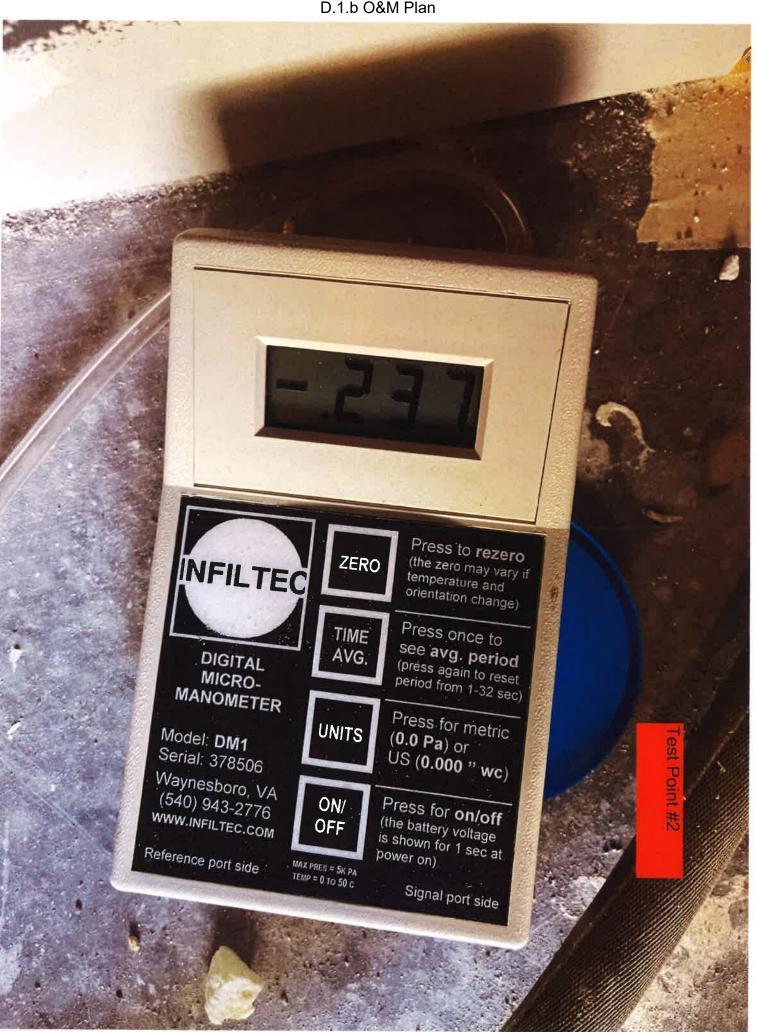


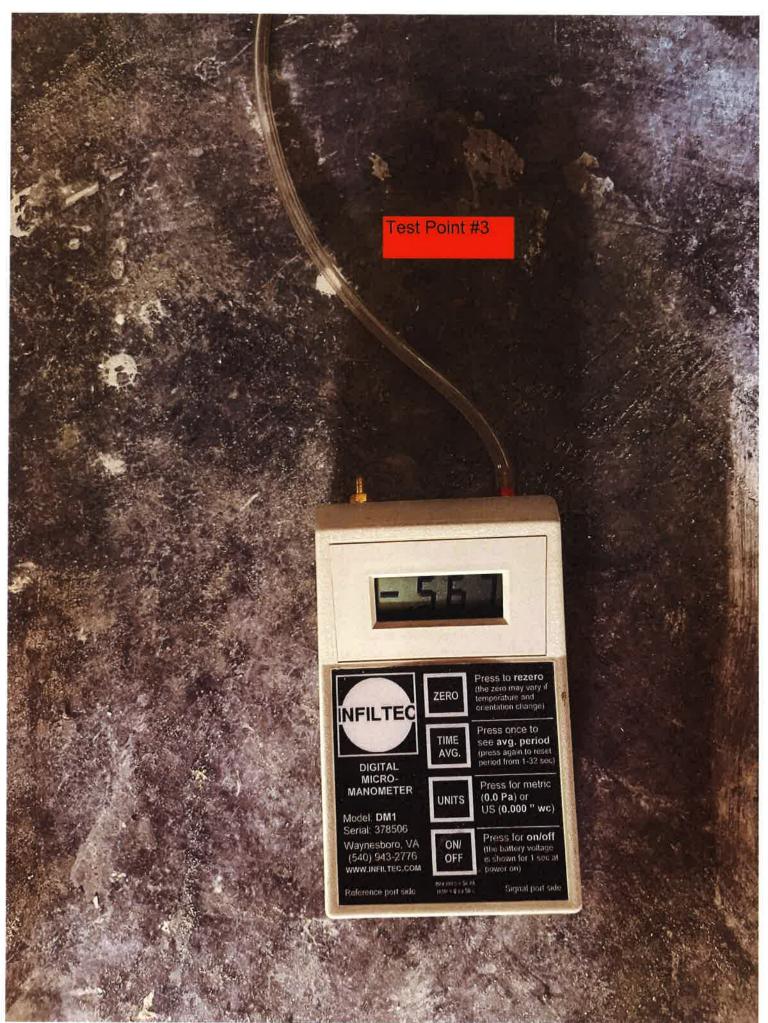














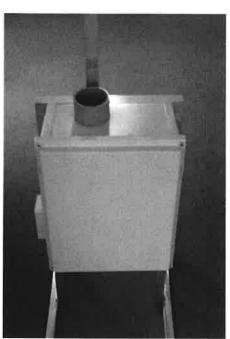
## THE OBAR GBR76 COMPACT RADIAL BLOWER



Based on 25 years of experience and 2 years of research and levelopment, the patent pending GBR series of compact adial blowers provide the perfect combination of reformance and design.

### **'ERFORMANCE**

- GBR76 SOE 16" WC @ 0 Max flow 155 CFM.
- GBR76 UD 40" WC @ 0 Max flow 195 CFM.
- Built in speed control to customize performance.
- Condensate bypass built in.
- 12 month warranty 40,000 hr sealed bearings.



GBR76 WITH ROOF MOUNT

### DESIGN

- Our modular design means the blower and manifold assembly can be removed and replaced as a unit. This makes repairs cost effective and easy and allows contractors to upgrade systems simply by swapping assemblies.
- The GBR series is based on a bypass blower designed to handle combustible materials.
- The housing is not required to be air tight, so you can add gauges and alarms without compromising the system.
- Built in condensate bypass.
- Built in speed control.
- Quick disconnect electrical harness.
- All UL listed components including UL listed enclosure for outside use.
- Wall fastening lugs included.
- GBR series roof and wall mounts available to quickly configure the blowers for your installation while providing a custom built look.
- Compact design 16"x 14"x 8" weighing only 18 lbs.
- 3" schedule 40 inlet and exhaust.
- Universal Drive model accepts voltage from 120-240V without alteration

COST	GBR76 SOE	GBR76 UD
COMPLETE UNIT	\$1289.00	\$1489.00
<b>3 YEAR WARRANTY</b>	<b>\$450.00</b>	\$550.00

GBR76 SOE	0"	2"	4**	6"	8"	10"	12"	16"	Wattage
SOE 16	150	140	129	118	105	90	75	35	150-320
SOE 12	125	115	100	83	62	39	0		110-200
SOE 8	105	90	70	42	0				60-120
SOE 4	75	50	0						37-50

GBR SOE performance using built in potentiometer set at sealed vacuums of 16, 12, 8, and 4" WC

GBR76 UD	0"	10"	20"	30"	37"	Wattage
110V	195	158	118	63	20	700-870
220V	197	162	130	89	50	800-1100

### **Hower Specifications**

### Notes:

Input Voltage Range: 108-132 Volts AC RMS, 50/60 Hz, single phase.

Input Current: 6 amps AC RMS

Operating Temperature (Ambient Air and Working Air): 0°C to 50°C

Storage Temperature: -40°C to 85°C

Dielectric Testing: 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground. 3mA leakage maximum.

Speed Control Methods: PWM (Pulse Width Modulation) (1 kHz to 10 kHz)

0 to 10 VDC speed control.

Mechanical: A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in motor housing.

Approximate Weight: 4.8 Lbs. / 2.2 Kg

Regulatory Agency Certification: Underwriters Laboratories Inc. UL507 Recognized under File E94403 and compliant under the CE Low Voltage Directive 2006/95/EC. Design Features: Designed to provide variable airflow for low NOX & CO emission in high efficiency gas fired combustion systems. Built with non-sparking materials: Blower housing assembly constructed of die cast aluminum. Impeller constructed from hardened aluminum. Rubber Isolation mounts built into blower construction to dampen vibration within the motor. Two piece blower housing assembly sealed with O-ring gasket for combustion applications. Customer is responsible to check for any leakage once the blower is installed into the final application.

Miscellaneous: Blower inlet, discharge, and all motor cooling inlet and discharge vents must not be obstructed. Motor ventilation air to be free of oils and other foreign particles, (i.e. breathing quality air). Blower is to be mounted so ventilation air cannot be re-circulated.

POWER CONNECTION: Blower connector, AMP Universal MATE-N-LOK, part no. 1-350943-0.

SPEED CONNECTION: Blower connector, Molex Mini-Fit Jr., part no. 39-30-3056.

Mating harnesses available upon request

### **Inclosure Specifications**

atings:

15,51 [393,8]

Screw cover

lectrical insulation: Totally insulated

gress Protection (EN 60529): 66/67

### Ialogen free (DIN/VDE 0472, Part 815): yes

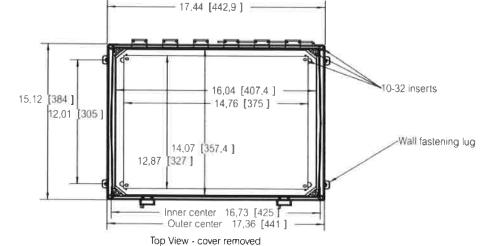
V resistance: UL 508

ammability Rating (UL 746 C 5): complies with UL 508

low Wire Test (IEC 695-2-1) °C: 960

EMA Class: UL Type 4, 4X, 6, 6P, 12 and 13

Certificates: Underwriters Laboratories



OBAR SYSTEMS INC 2969 ROUTE 23 SOUTH NEWFOUNDLAND NJ 07435 800 949 6227



- start if the motor temperature is below 0 degrees F at time of startup.
- 2. Ground water restrictions: The blower should not be installed at a height above water table that is less than the vacuum setting for the blower, if the water table is unknown then the base of the slab should be used as a default. The GBR series is a high vacuum blower and will draw water into the assembly and damage the impeller and motor if not properly installed.
- 3. Speed control: The GBR series blowers have a built in speed control that can be used to field adjust the vacuum on your system. These should only be adjusted by an experienced installer familiar advanced systems design and installation. For information regarding on site adjustments please contact Obar Systems for further information.
- 4. Enclosure: It is not recommended that the enclosure be opened except for repairs and adjustments. Contact Obar Systems before removing the cover.
- 5. Mounting: The fan should be mounted in a vertical orientation with the discharge pointing

upward. The inlet and discharge should be attached with a PipeConx or similar flexible connector of the appropriate size. The connector should provide a gap of 1.5 inches between the inlet pipe and inlet fitting and discharge pipe and discharge fitting. This will allow for motor assembly replacement in future repairs. The GBR comes with wall fastening lugs that provide for a flush installation on a flat even surface. Optional roof and wall mounts are available and are designed to reduce installation times dramatically. Contact Obar Systems for additional information on mounting systems. The fan should be located in an area that provides easy access and does not obstruct the operations of the building to which it is attached.

6. Discharge: Make sure the discharge meets or exceeds National guidelines and local codes for the installation and venting of Radon and or VOCs (Volatile Organic Compounds). In the event that there is the possibility of debris entering the discharge of the fan, it is recommended that a guard be installed to protect the blower from damage.

### <u>Warranty</u>

Subject to any applicable consumer protection legislation, Obar Systems warrants the GBR series fans for 12 months from the date of purchase.

Obar systems will repair or replace any fan which fails due to defects in materials and workmanship. A RMA must be obtained and proof of purchase is required to be serviced by this warranty.

This warranty is contingent upon the fan having been installed as per the installation requirements set forth by Obar Systems and in accordance with the requirements of federal and state authorities governing the installation systems designed for radon and volatile organic compounds.

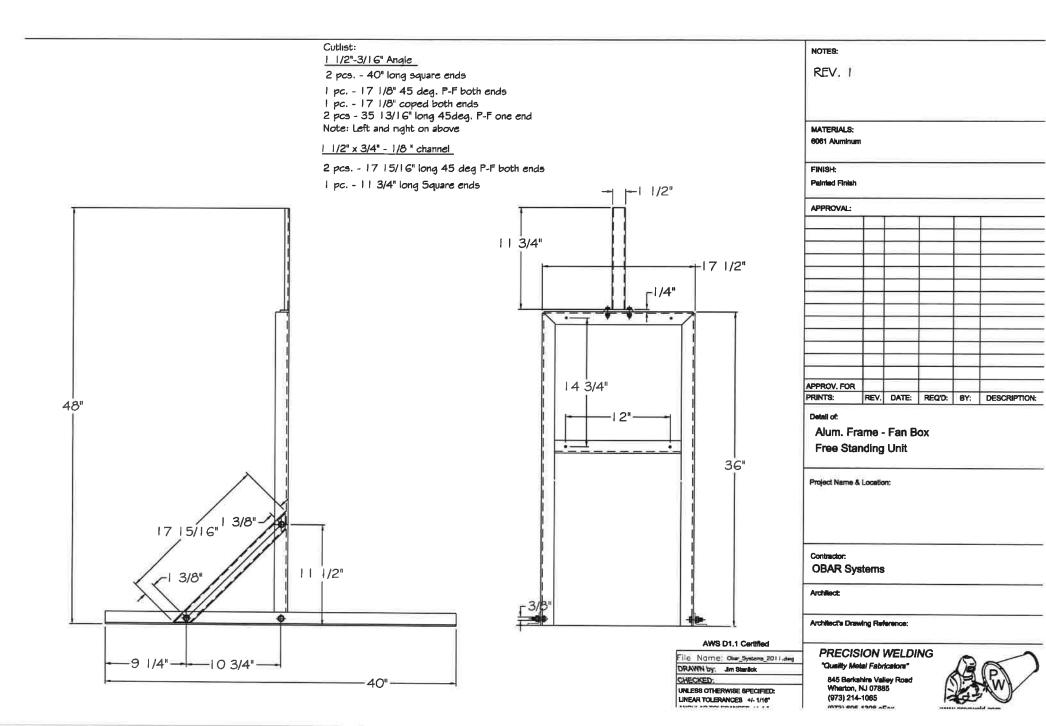
Obar systems is not responsible for the installation, removal or delivery costs associated with this warranty.

Except as stated, the GBR series are provided without warranty of any kind, either expressed or implied, including without limitation, implied warranties of merchantability and fitness for a particular use.

Obar systems is in no way responsible for any direct or indirect damages relating to the performance of the GBR series fan. Any liability shall not exceed the purchase price of the unit. The sole remedy under this warranty shall be the repair or replacement of the unit

Contact Obar Systems to obtain a RMA (Return Material Authorization) number for any and all warranties. If return is required, the customer is responsible for all freight charges.

Obar Systems Inc. 2969 Route 23 South Newfoundland NJ 07435 800 949 6227





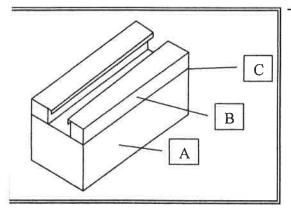
### PIPE PIER® Elite Submittal Sheet

PE PIER® support blocks have been designed and engineered specifically for rooftop and raised floor applications. The PE PIER® Elite series is offered in the following dimensions:

- $\square$  PP50ELH4 4"H x 4"W x 10-1/2"L with 50 lbs max load.
- $\square$  PP50ELH6 6"H x 4"W x 10-1/2"L with 50 lbs max load.
- $\Box$  PP30ELH4 4"H x 4"W x 5"L with 30 lbs max load.

### omponents

Closed-cell, medium density, black expanded polypropylene foam High density molded polyethylene cap with integrated strut design. Hot melt adhesive-bonded HDP to foam block – American Chemical



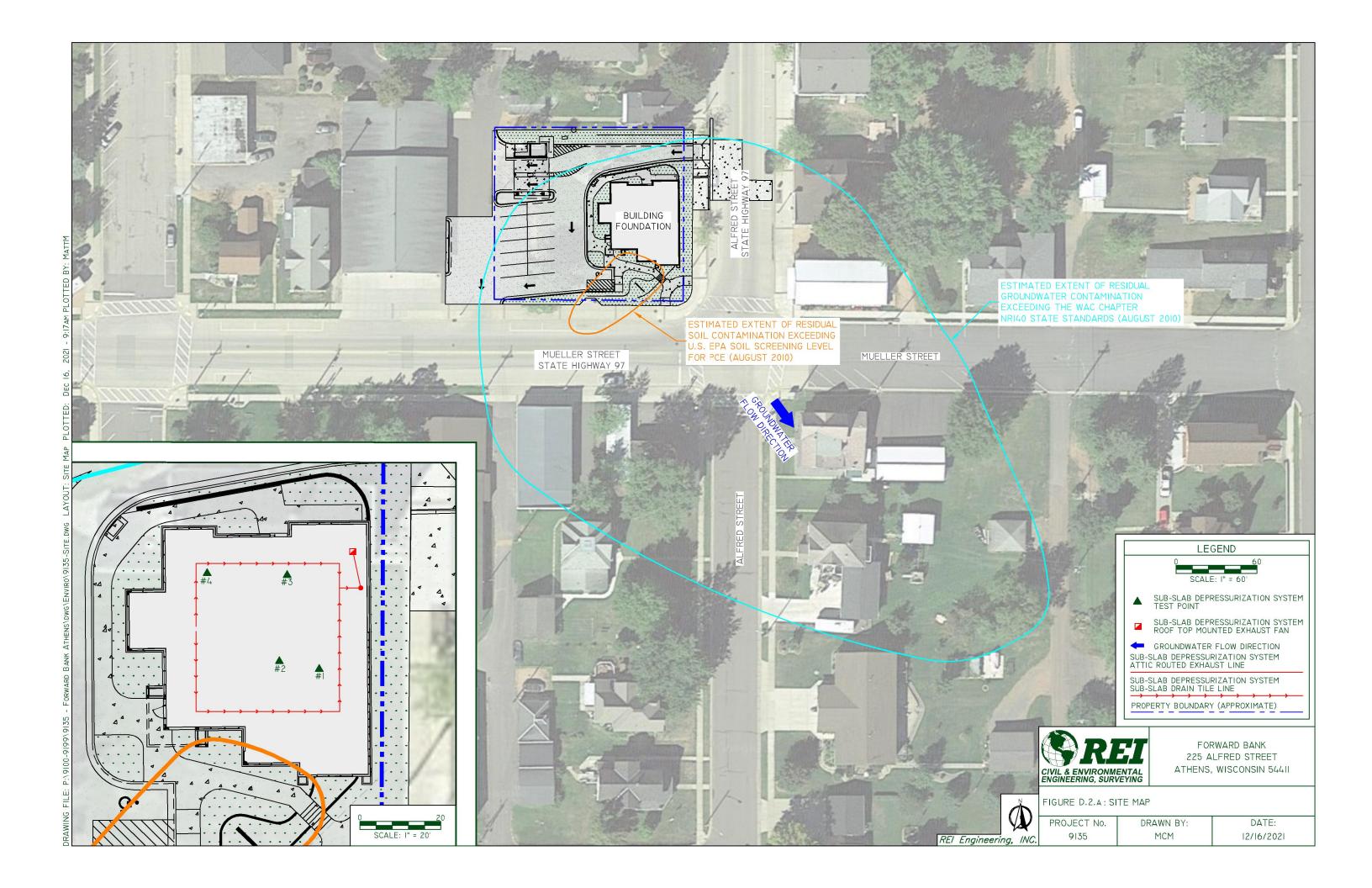
Arplank 1.9# EPP foam offers excellent strength, resistance to creep under loadings up to 5.0psi, vibration & shock absorbency and water resistance characteristics. It has successfully passed MVSS 302 flammability testing and meets or exceeds the requirements for U.S. Federal Standard CID AA-59136 Type IV.

Physical Properties	Test Method	Direction	Value
Density Compression Set	03575, Suffix W, Method B ASTM D 3575, Suffix B	N/A Vertical	3.9 pcf 12%
Compression Creep & 5.0 psi (1000 hr/72 F)	ASTM C 3575, Suffix BB	Verticai	<10%
Thermal Stability	ASTM D 3575, Suffix S	N/A	<1%
Water Absorption	ASTM D 3575, Suffix L	N/A	<1.0%



American Chemical is a sprayable heat & moisture-resistant hot melt adhesive. It has a 400 degree flash point and is applied by a nozzle applicator during the manufacturing process.

U.S. Patent No. 5855342, U.S. Patent No. 6305650, U.S. Patent No. 6679461, Other patents pending PIPE PIER\* Support Systems, P: 763.745.4223 F: 763.745.4222 www.pipepier.com



### **D.3 Photographs**

Photographs are included in Attachment D.1.b Operation and Maintenance Plan/ Post Installation Report (7/12/2021) Prepared by SWAT Environmental State of Wisconsin Department of Natural Resources <u>dnr.wi.gov</u>

### Vapor Mitigation System Inspection Log

Form 4400-321 (R 09/20)

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**Notice:** In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain vapor-related continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records law [ss. 19.31-19.39, Wis. Stats.].

**Directions**: This form was developed to provide the results of a site inspection of a vapor related continuing obligation, typically a vapor mitigation system. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. The closure letter may be found in the database, <u>BRRTS on the Web</u>, by searching for the site using the BRRTS ID number, and then looking in the "Action" section, for code 56.

Activity (Site) Name: Former Englebrecht Building

BRRTS No. 02-37-536610

Date of Inspection:

When submittal of this form is required, submit an electronic version or a scanned copy of this completed form to the RR Submittal Portal.

SYSTEM COMPONENT				DATE:
NAME	WHAT DOES IT DO?	WHAT DO I CHECK?	WHAT SHOULD I SEE?	WHAT TO FIX?
Manometer or Differential Pressure Gauge	Measures differential pressure between vacuum side of vent pipe and indoor space.	Liquid Level on Manometer or Gauge	Liquid level in manometer should be offset (not level with each other).	A change in liquid level indicates a change in the vacuum below foundation. This could be caused by failure of fan, blockage of vent pipe, change in water level below building, or other conditions.
	This measurement confirms there is a vacuum being pulled by the fan.			Hire a professional to identify cause and repair if needed.
РНОТО			NOTES: (Record the reading	on the gauge. Identify specific building and location description:)
			Not Applicable	
			Northeast Utility Room/Clo	set. Original Fan W.C. = 3.0" W.C.
Manometer/Pressure Gauge				

## D.4. Continuing Obligation Inspection & Maintenance Log Vapor Mitigation System Inspection Log

BRRTS No. 02-37-536610

### Site Name: Former Englebrecht Building

Form 4400-321 (R 09/20)

Page 2 of 5

SYSTEM COMPONENT				DATE:
NAME	WHAT DOES IT DO?	WHAT DO I CHECK?	WHAT SHOULD I SEE?	WHAT TO FIX?
Fan	Fan creates a vacuum and lowers pressure below foundation. The fan also removes soil gases from below foundation for discharge to atmosphere.	Fan Operation Fan Location Motor Noise	Fan is on. Fan mounted outside & secure. Fan motor is quiet (loud motor may indicate problem).	Replace the fan immediately once the fan stops running. Fans typically run for 10-20 years, but it may be less. Replacement fan to have similar specifications as original with respect to flow and vacuum. After a fan is replaced, the system should be evaluated by a mitigation professional to verify effectiveness, which includes pressure readings. Original Fan Make and Model: GBR76 SOE
PHOTO			NOTES: (Identify specific bui	ilding and location description:)

# D.4. Continuing Obligation Inspection & Maintenance Log Vapor Mitigation System Inspection Log Form 4400-321 (R 09/20) Page 3 of 5

BRRTS No. 02-37-536610

### Site Name: Former Englebrecht Building

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SYSTEM COMPONENT				DATE:
NAME	WHAT DOES IT DO?	WHAT DO I CHECK?	WHAT SHOULD I SEE?	WHAT TO FIX?
	<b>Suction Point :</b> Soil gases are collected in a void space below the foundation, and tight seal prevents	Suction Point Seal	Seal is air tight around pipe penetration.	Suction point seal or vent pipe may need to be sealed or replaced if cracks or leaks appear.
Suction Drop Point w/ Vent Pipe	soil gas from getting inside the home. Vent Pipe: Pipe conveys the vacuum from the fan, and collects soil gases for discharge to the atmosphere.	Vent Pipe Condition	Vent pipe is connected to fan, has not cracked.	If any piping or sealing of the system is altered or replaced, the system should be evaluated by a mitigation professional to verify effectiveness, which includes pressure readings.
РНОТО			NOTES: (Identify specific bui	Iding and location description:)
			Not Applicable	
			Installed inside interior wall	
Sealed Sump w/Vent	<b>Sump Cover:</b> Soil gases are collected in sump and the cover prevents soil gas from getting inside	Suction Point Seal	Seal is airtight to floor.	Sump cover or vent pipe may need to be sealed or replaced if cracks or leaks appear.
Pipe	home. <b>Vent Pipe:</b> Pipe transports the soil gas from the sump for discharge to the atmosphere.	Vent Pipe Seal Condition	Vent pipe is connected to the sump cover and is not cracked.	If any piping or sealing of the system is altered or replaced, the system should be evaluated by a plumber or a mitigation professional to verify effectiveness, which includes pressure readings.
РНОТО			NOTES: (Identify specific bui	lding and location description:)
Optional: Click on photo to upload your own.			Not Applicable	

## D.4. Continuing Obligation Inspection & Maintenance Log Vapor Mitigation System Inspection Log

BRRTS No. 02-37-536610

### Site Name: Former Englebrecht Building

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SYSTEM COMPONENT				DATE:
NAME	WHAT DOES IT DO?	WHAT DO I CHECK?	WHAT SHOULD I SEE?	WHAT TO FIX?
Outdoor Vent Pipe	Pipe transports the soil gas from beneath the foundation for discharge to the atmosphere.	Vent Pipe Condition Vent Pipe Location	Vent pipe remains connected to fan. End of pipe free from obstructions. The exhaust is more than 15 feet from windows or air intakes.	Vent pipe may require replacement, or cleaning to remove ice or debris. If any piping or sealing of the system is altered or replaced, the system should be evaluated by a mitigation professional to verify effectiveness, which includes pressure readings.
РНОТО				Iding and location description:)
			Not Applicable Northeast Corner of the Roo	of.
Foundation Floor	Foundation is a barrier that minimizes soil gas entry into building, and helps fan to work efficiently.	Foundation Condition Foundation Footprint	No penetrating cracks or holes in foundation. Check if there have been alterations or additions to building or footprint.	Seal cracks or other penetrations as you would to prevent water from entering. If building floor plan has changed, notify DNR and contact a mitigation professional to evaluate if modifications to the vapor mitigation system are necessary.
РНОТО		I	NOTES: (Identify specific bui	I Iding and location description:)
Optional: Click on photo to up your own.	bload		Not Applicable	

## D.4. Continuing Obligation Inspection & Maintenance Log Vapor Mitigation System Inspection Log

BRRTS No. 02-37-536610

### Site Name: Former Englebrecht Building

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SYSTEM COMPONENT				DATE:
NAME	WHAT DOES IT DO?	WHAT DO I CHECK?	WHAT SHOULD I SEE?	WHAT TO FIX?
Sub Slab Vapor Port	This is a sample port to measure vacuum or take sample of soil gas if needed. It needs to remain sealed when not in use to prevent soil gas entry into the home.	Port Seal/Cap	If able to measure the vacuum with a micromano- meter, the pressure differen- tial should be at least $0.004$ inches of H <sub>2</sub> O or at least one Pascal.	
		Port Condition	Port is sealed and capped when not in use.	Permanently seal hole if sample port is ever removed.
PHOTO Optional: Click on photo to upload your own.		NOTES: (If taken, record the description:)	pressure differential reading. Identify specific building and location	