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Remediation & Redevelopment

Tel: 608-838-9120
Fax: 608-838-9121

April 26, 2013

Mr. James Walden
Wisconsin Department of Natural Resources
101 South Webster Street
Madison, Wisconsin 53707

**Re: Vapor Sampling
Miller's Liquor Property
Madison, Wisconsin**

Dear Mr. Walden:

Seymour Environmental Services, Inc. (Seymour) is pleased to present the results of initial vapor intrusion assessment sampling in the area around the above referenced property. Generally, the initial assessment involved sampling of sub-slab vapors beneath the residential properties that lie within ~100 feet of the identified contamination.

Vapor Intrusion Sampling

Subslab sampling probes were installed at four of the residences located nearby the site. No subslab probes were installed at the Kappa Psi house, which is located immediately to the south since a sub-slab depressurization system was installed several years ago to mitigate radon. No subslab probes were installed at two of the planned properties, 2408 and 2410 Kendall Avenue, the site owners refused access until data from properties located nearer to Miller's Liquor was available. Properties where subslab analysis were conducted include:

<u>Address</u>	<u>Owner</u>	<u>Media Sampled</u>
2415 University Avenue	Faust, Duane	Subslab/Indoor air
2417 University Avenue	Corcoran, Patrick	Subslab/Indoor air
413 Chestnut Street	Albrecht, Mary	Subslab/Indoor air
414 Chestnut Street	Kappa Psi	Venting System/Indoor air
2402 Kendall Avenue	Schmidt, Jerry	Subslab/Indoor air

At each subslab sampling probe a 1.25" hole was drilled through the concrete floor and advanced to a depth of approximately 10 inches. A stainless steel sampling tip attached to 1/4 OD Teflon tubing was placed in the hole. The area around the probe was filled with clean filtered sand (#30) to 1.5" below the concrete floor slab. Granular bentonite was placed above the sand and extended upward to the just below the base of the floor. The bentonite was hydrated to provide a seal. The remaining borehole was filled with a concrete sand mix. The locations of the subslab vapor sampling probes are shown on Figure 1 and a generalized sketch of the subslab vapor probe configuration is attached as Figure 2.

On March 14 and 15, 2013 initial vapor sampling was conducted around the site. Samples of subslab vapors and indoor air vapors were collected at each of the five properties. All of the samples were collected using 6-liter Summa canisters provided by the Wisconsin Occupational Health Lab. Subslab sampling canisters were equipped with regulators so that the canisters filled over a 30-minute period limiting the flow to approximately 200 ml/min. Indoor air sampling canisters were equipped regulators to provide a 24-hour sampling. Vapor samples recovered were analyzed for CVOCs.

Prior to collecting the subslab samples a shroud was placed over each sampling probe to isolate the area surrounding the probe. A vacuum test was performed to ensure that the sampling lines did not leak. A vacuum of between 10 and 15 inches Hg was applied to the sampling lines at each point. The vacuum was checked and whenever a leak was noted fittings were tightened. No samples were collected until the vacuum in the sampling line could be maintained for a 5-minute period. After the vacuum test was passed a helium leakage test was performed. Helium was introduced into the shroud and the helium concentration in the shroud was measured with an Ion tack Instrument Leak Seeker 96 helium meter. Subsequently the sampling line was purged using a hand-operated vacuum pump and the organic vapor level in the subslab vapors were measured. The helium meter was then moved to the sampling line and the helium level from the probe was measured to evaluate whether there was significant leakage through the probe. The leakage was less than 1% at all of the sampling probes. The Summa canisters were not filled until after the vacuum and helium leakage tests were completed satisfactorily. Field data from the sampling is summarized in Table 1.

Vapor sampling results at the site indicate that vapor intrusion at the properties surrounding Miller's Liquor is not an immediate concern. None of the vapor samples collected during the March 2013 assessment exceeded the applicable screening criteria. The vapor sampling data are shown on Figure 3 and vapor analytical data are summarized in Table 2. Results of the indoor air and subslab vapor sampling are described below

Indoor Air

Indoor air samples showed that the vapor levels in the basements were below the indoor air action levels. Only two analytes were detected in the indoor air samples, tetrachloroethene (PCE) and trans 1,2-dichloroethene (trans 1,2 DCE). The PCE level in the indoor air samples ranged from <0.085 ppbv to 0.970 ppbv and trans 1,2 DCE ranged from <0.085 ppbv to 0.97 ppbv. The highest indoor air level was detected at the Faust property, which is located immediately to the west of Miller's Liquor.

Subslab Vapors

As with the indoor air samples only PCE and trans 1,2 DCE were detected in the subslab vapors. The PCE level in the subslab samples ranged from <0.085 ppbv to 27 ppbv and trans 1,2 DCE ranged from <0.085 ppbv to 0.93 ppbv. The highest subslab PCE concentrations were present at the Faust property immediately west of the subject site. This is consistent with data from the indoor air samples. The highest level of trans 1,2 DCE level was noted in the vapor sample collected from the radon mitigation system at the Kappa Psi house, which is immediately south of Miller's Liquor.

Conclusions and Recommendations

Based on the vapor data that we collected in March it appears that vapor intrusion is not an immediate concern at the properties that surround Miller's Liquor. This is not surprising since only limited shallow soil contamination has been identified at the site and groundwater is fairly deep (~24 feet). However, as planned no soil sampling has been performed inside of the Miller's building where the dry cleaning equipment formerly was located. Additionally, the higher CVOC levels identified in the soils near the site we associated with the sanitary sewer areas. It is possible that higher vapor levels are present in sediments near the sewer lines.

Based on the data we recommend that the following activities be conducted.

- 1) Collect soil samples inside of the Miller's building near the area(s) where dry cleaning equipment formerly was present.
- 2) Install a vapor mitigation system in the building on the Miller's property. The PCE levels in the subslab sample from the property next door indicate that elevated vapors are present in the area and this would alleviate migration of the vapors away from the subject parcel.
- 3) Perform soil sampling along the sanitary sewer to determine the general distribution of elevated levels of CVOCs.

If you have any questions please feel free to call Mark Fryman or me at (608) 838-9120.

Sincerely,

Seymour Environmental Services, Inc.



Robyn Seymour, P.G.
Hydrogeologist

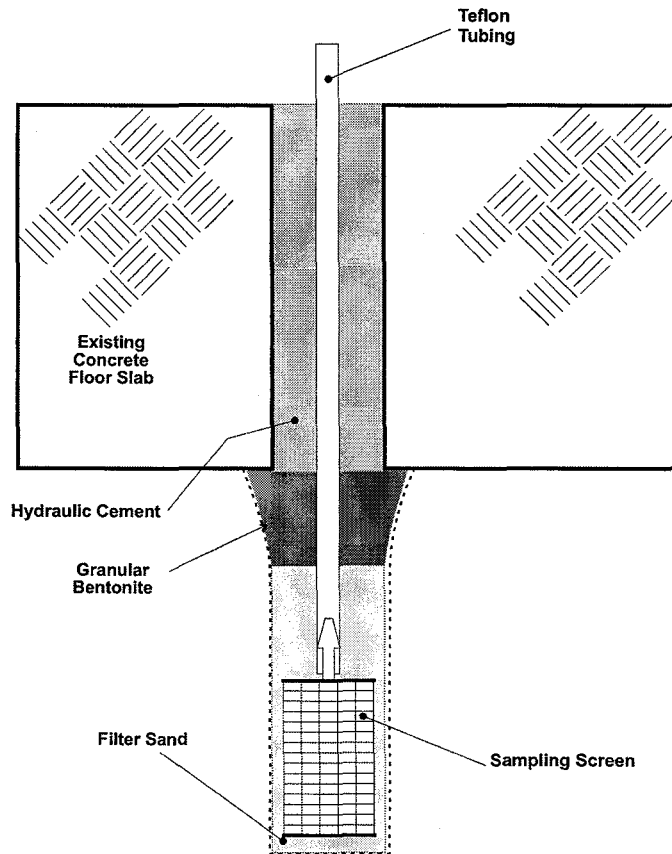
Enclosures:

- Figure 1 -Subslab Vapor Probe Locations
- Figure 2 -Subslab Vapor Probe Configuration
- Figure 3 -Vapor Sampling Results

- Table 1 -Field Data
- Table 2 -Analytical Results

Laboratory Reports

cc: Steve Miller



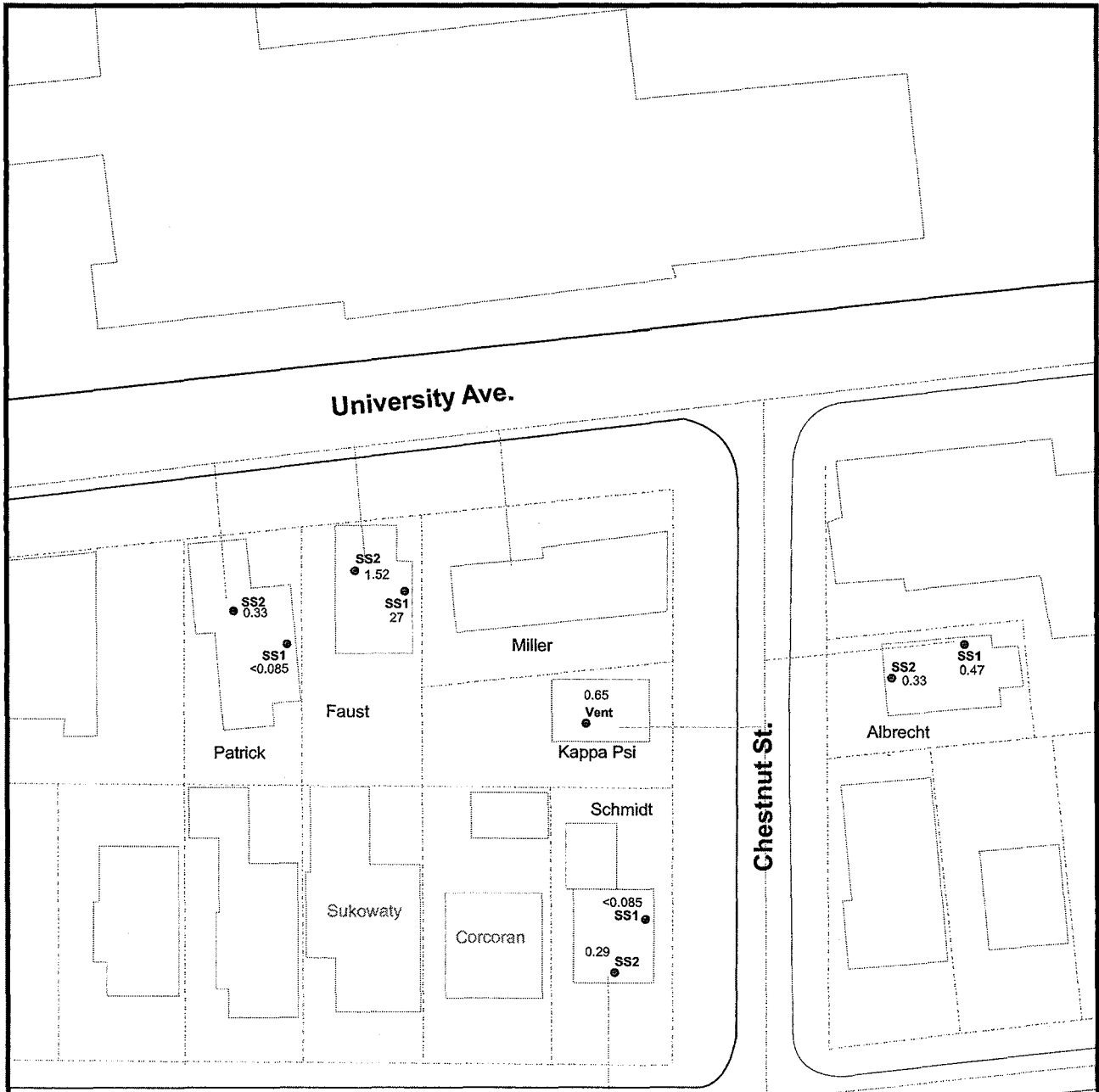
0 2" 4"
 1 INCH = 2 INCH
 SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\MILLERLIQUOR\
 Vaporprobe.cdr
 DATE: 03/20/2013
 PREPARED: TMB APPROVED:
 SOURCE: Field Measurements

SEYMOUR
 ENVIRONMENTAL
 SERVICES, INC.

SUBSLAB VAPORS PROBE SKETCH
 Miller's Liquor Property
 2401 University Avenue
 Madison, Wisconsin

FIGURE
 2

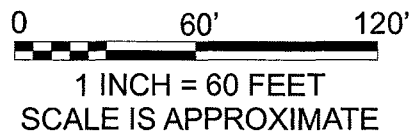


Kendell Ave.

Chestnut St.

LEGEND

- SS1 ● - Subslab Vapor Probe
- B-2 ⊙ - Geoprobe Location
- MW1 ⊙ - Monitoring Well



FILE/PATH: D:\PROJECTSMILLERLIQUOR\ vaporresults.cdr
 DATE: 03/20/2013
 PREPARED: MDF APPROVED:
 SOURCE: Field Measurements

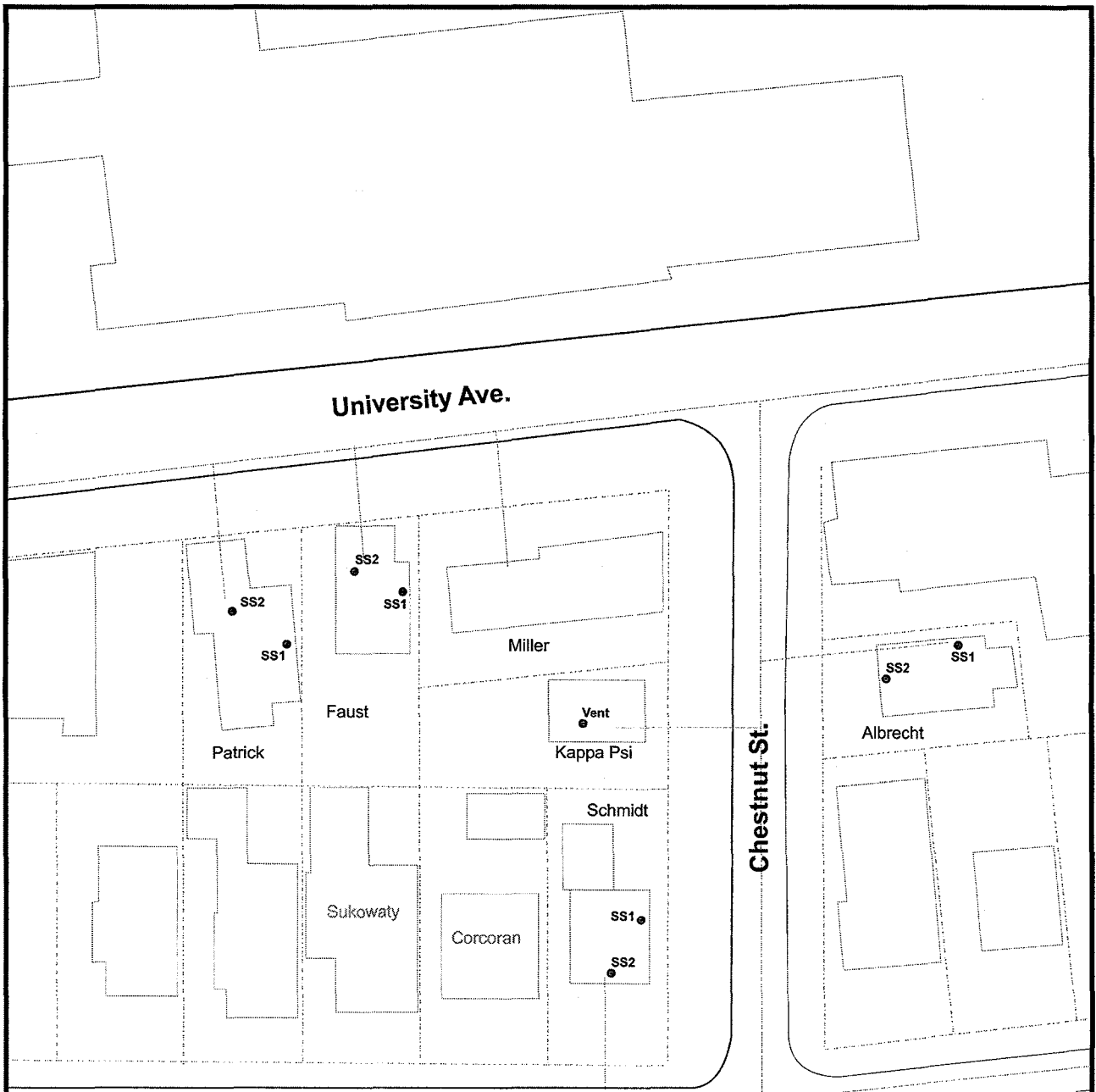


**SEYMOUR
ENVIRONMENTAL
SERVICES, INC.**

PCE LEVEL IN SUBSLAB VAPORS (vppb)
 Miller's Liquor Property
 2401 University Avenue
 Madison, Wisconsin

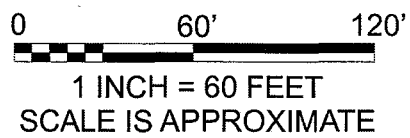
FIGURE

3



LEGEND

- SS1 ● - Subslab Vapor Probe
- B-2 ⊙ - Geoprobe Location
- MW1 ⊙ - Monitoring Well



FILE/PATH: D:\PROJECTS\MILLERLIQUOR\ Vaporpoints2013.cdr
 DATE: 03/20/2013
 PREPARED: MDF APPROVED:
 SOURCE: Field Measurements



**SEYMOUR
 ENVIRONMENTAL
 SERVICES, INC.**

VAPOR SAMPLING LOCATIONS
 Miller's Liquor Property
 2401 University Avenue
 Madison, Wisconsin

FIGURE
1

TABLE 1
VAPOR SAMPLING FIELD DATA
Miller's Liquor
2401 University Avenue - Madison, Wisconsin

SAMPLE ID	Line Vacuum (inches Hg)		Helium (%)			PID Reading	Startup			Completion		
	Initial	5 min.	Shroud	Line	Leakage		Date	Time	Vacuum	Date	Time	Vacuum
Faust SS-1	15	15	8	0.3	3.75%	2.2	3/13/13	10:10	29	3/13/13	11:01	1
Faust SS-2	12.5	12.5	13	0	0.00%	0.1	3/13/13	10:40	28.9	3/13/13	11:27	0.2
Faust Indoor	--	--	--	--	--	0	3/13/13	10:48	30	3/15/13	12:10	0
Albrecht SS-1	10.5	10.5	13	0.8	6.15%	0	3/13/13	12:23	28	3/13/13	12:55	0
Albrecht SS-2	11	11	20	0	0.00%	0	3/13/13	12:40	29	3/13/13	13:20	0
Albrecht Indoor	--	--	--	--	--	0.1	3/13/13	11:56	30	3/14/13	13:49	2
Patrick SS-1	12	12	11	0	0.00%	0	3/13/13	13:50	28	3/13/13	14:26	0
Patrick SS-2	10.5	10.5	23	0.8	3.48%	0	3/13/13	14:10	28	3/13/13	14:42	0
Patrick Indoor	--	--	--	--	--	0	3/13/13	13:56	29	3/15/13	12:03	0
Schmidt SS-1	14	14	20	0	0.00%	0	3/13/13	15:13	28	3/13/13	16:10	0
Schmidt SS-2	15	15	13	0	0.00%	0	3/13/13	15:32	27	3/13/13	16:15	0
Schmidt Indoor	--	--	--	--	--	0.5	3/13/13	15:37	30	3/14/13	15:40	2
Kappa Vapor	14	14	--	--	--	1.7	3/13/13	15:40	29	3/13/13	16:20	0
Kappa Indoor	--	--	--	--	--	1.0	3/13/13	15:59	29.5	3/14/13	16:04	4.5

TABLE 2
SUMMARY OF VAPOR INTRUSION SAMPLING RESULTS (March 13, 2013)
Miller's Liquor
2401 University Avenue - Madison, Wisconsin

Location	Sample ID	Tetrachloroethene (ppbv)	Trichloroethene (ppbv)	cis 1,2 dichloroethene (ppbv)	trans 1,2 dichloroethene (ppbv)	Vinyl chloride (ppbv)
Kappa Psi 414 Chestnut	Vent	0.65	<0.17	<0.17	0.93	<0.17
	Indoor	<0.085	<0.085	<0.085	0.29	<0.085
Faust 2415 University	SS-1	27	<20	<20	<20	<20
	SS-2	1.57	<0.085	<0.085	0.490	<0.085
	Indoor	0.970	<0.085	<0.085	0.37	<0.085
Patrick Corcoran 2417 University	SS-1	<0.085	<0.085	<0.085	0.54	<0.085
	SS-2	0.330	<0.085	<0.085	0.69	<0.085
	Indoor	<0.085	<0.085	<0.085	<0.27	<0.085
Mary Albrecht 413 Chestnut	SS-1	0.470	<0.085	<0.085	<0.085	<0.085
	SS-2	0.330	<0.085	<0.085	0.380	<0.085
	Indoor	0.790	<0.085	<0.085	<0.31	<0.085
J. Schmidt 2402 Kendall	SS-1	<0.085	<0.085	<0.085	0.31	<0.085
	SS-2	0.290	<0.085	<0.085	0.32	<0.085
	Indoor	<0.085	<0.085	<0.085	0.26	<0.085
Indoor Air Standard (ug/m3)		42	2.1	ne	63	1.6
Molecular Weight		165.83	131.39	96.94	96.94	62.5
Indoor Air Standard (ppbv)		6.2	0.39	ne	16	0.62
Subslab Standard (ppbv) (Attenuation factor 0.1)		62	3.9	ne	160	6.2
<p>- Bold Values exceed indoor air action level - Shaded Values exceed subslab action level</p>						



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 Madison, WI 53707-7996
 (800)442-4618 • FAX (608)224-6213
 http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002790

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 13810

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/20/2013 07:30:00

Date Reported: 03/22/2013

Sample Reason:

Field #: KAPPA INDOOR

Collection Start: 03/13/2013 15:59:00

Collection End: 03/14/2013 16:04:00

Collected By: M. FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/21/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.29	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	



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Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002790

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Report #: 9546582

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002789

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 13810

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/20/2013 07:30:00

Date Reported: 03/22/2013

Sample Reason:

Field #: SCHMIDT INDOOR

Collection Start: 03/13/2013 15:37:00

Collection End: 03/14/2013 15:40:00

Collected By: M. FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/21/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.26	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002789

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List of Abbreviations:

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ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

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Report #: 9546581

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002788

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/20/2013 07:30:00

Date Reported: 03/22/2013

Sample Reason:

Field #: PATRICK INDOOR

Collection Start: 03/13/2013 13:56:00

Collection End: 03/15/2013 12:03:00

Collected By: M. FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/21/2013	SEE OX002788.MM1				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS*I<0.27	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	

OX002788.MM1:

WISCONSIN STATE LABORATORY OF HYGIENE SAMPLE OX002788 CONTAINS THE FOLLOWING FLAGS.

THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.
 INTERFERENCE INDICATED BY *I.

IF YOU HAVE ANY QUESTIONS, CONTACT STEVE GEIS AT (608) 224-6269.



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002788

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Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002787

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Field #: ALBRECHT INDOOR

Waterbody/Outfall ID:

Collection Start: 03/13/2013 11:56:00

Point/Well:

Collection End: 03/14/2013 13:49:00

Account #: PP009

Collected By: M. FRYMAN

Project No:

County:

Date Received: 03/20/2013 07:30:00

Sample Source: INDOOR AIR

Date Reported: 03/22/2013

Sample Depth:

Sample Reason:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/21/2013	SEE OX002787.MM1				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS*I<0.31	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.790	PPB V	0.085	0.280	

OX002787.MM1:

WISCONSIN STATE LABORATORY OF HYGIENE SAMPLE OX002787 CONTAINS THE FOLLOWING FLAGS.

THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.
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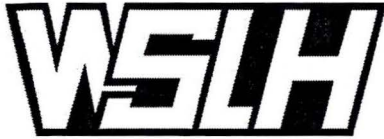
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Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

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Laboratory Report

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Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002777

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Field #: FAUST INDOOR

Waterbody/Outfall ID:

Collection Start: 03/13/2013 10:48:00

Point/Well:

Collection End: 03/15/2013 12:10:00

Account #: PP009

Collected By: M. FRYMAN

Project No:

County:

Date Received: 03/20/2013 07:30:00

Sample Source: INDOOR AIR

Date Reported: 03/22/2013

Sample Depth:

Sample Reason:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/21/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.37	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.970	PPB V	0.085	0.280	



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<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002777

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546578

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002683

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810
 SEYMOUR ENVIRONMENTAL SERVICES

MCFARLAND, WI 53558

2531 DYRESON RD
 MCFARLAND WI 53558

ID#:

Field #: KAPPA VAPOR

Waterbody/Outfall ID:

Collection Start: 03/13/2013 15:40:00

Point/Well:

Collection End: 03/13/2013 16:20:00

Account #: PP009

Collected By: MARK FRYMAN

Project No:

County:

Date Received: 03/14/2013 11:07:00

Sample Source: INDOOR AIR

Date Reported: 03/21/2013

Sample Depth:

Sample Reason:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/19/2013	SEE OX002683.MM1				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS*D<0.17	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.93	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS*D<0.17	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS*D<0.17	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS 0.65	PPB V	0.085	0.280	

OX002683.MM1:

WISCONSIN STATE LABORATORY OF HYGIENE SAMPLE OX002683 CONTAINS THE FOLLOWING FLAGS.

THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.
 LOD NOT ACHIEVABLE DUE TO DILUTION - *D.

IF YOU HAVE ANY QUESTIONS, CONTACT STEVE GEIS AT (608) 224-6269.



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002683

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

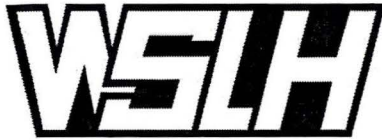
Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546423

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002682

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 13810

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/14/2013 11:07:00

Date Reported: 03/21/2013

Sample Reason:

Field #: SCHMIDT SS-2

Collection Start: 03/13/2013 15:32:00

Collection End: 03/13/2013 16:15:00

Collected By: MARK FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment					
03/18/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.					
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280		
TRANS-1,2-DICHLOROETHYLENE	*IS 0.32	PPB V	0.085	0.280		
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
TETRACHLOROETHYLENE	*IS 0.29	PPB V	0.085	0.280		



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002682

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Report #: 9546422



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002681

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/14/2013 11:07:00

Date Reported: 03/21/2013

Sample Reason:

Field #: SCHMIDT SS-1

Collection Start: 03/13/2013 15:13:00

Collection End: 03/13/2013 16:10:00

Collected By: MARK FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/18/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.31	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002681

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: *Steve Geis* Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002680

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Field #: PATRICK SS-2

Waterbody/Outfall ID:

Collection Start: 03/13/2013 14:10:00

Point/Well:

Collection End: 03/13/2013 14:42:00

Account #: PP009

Collected By: MARK FRYMAN

Project No:

County:

Date Received: 03/14/2013 11:07:00

Sample Source: INDOOR AIR

Date Reported: 03/21/2013

Sample Depth:

Sample Reason:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/18/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.69	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.330	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002680

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546420

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002679

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 13810

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/14/2013 11:07:00

Date Reported: 03/21/2013

Sample Reason:

Field #: PATRICK SS-1

Collection Start: 03/13/2013 13:50:00

Collection End: 03/13/2013 14:26:00

Collected By: MARK FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/18/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS 0.54	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	ND	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002679

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546419

Page 2 of 2



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB WI00007 WI DATCP ID: 105-415

WSLH Sample: OX002678

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Field #: ALBRECHT SS-2

Waterbody/Outfall ID:

Collection Start: 03/13/2013 12:40:00

Point/Well:

Collection End: 03/13/2013 13:20:00

Account #: PP009

Collected By: MARK FRYMAN

Project No:

County:

Date Received: 03/14/2013 11:07:00

Sample Source: INDOOR AIR

Date Reported: 03/21/2013

Sample Depth:

Sample Reason:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/18/2013					
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	0.380	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.330	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002678

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546418

Page 2 of 2



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002677

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Field #: ALBRECHT SS-1

Waterbody/Outfall ID:

Collection Start: 03/13/2013 12:23:00

Point/Well:

Collection End: 03/13/2013 12:55:00

Account #: PP009

Collected By: MARK FRYMAN

Project No:

County:

Date Received: 03/14/2013 11:07:00

Sample Source: INDOOR AIR

Date Reported: 03/21/2013

Sample Depth:

Sample Reason:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/18/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	0.470	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002677

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546417

Page 2 of 2



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002676

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 13810

MCFARLAND, WI 53558

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/14/2013 11:07:00

Date Reported: 03/21/2013

Sample Reason:

Field #: FAUST SS-2

Collection Start: 03/13/2013 10:40:00

Collection End: 03/13/2013 11:27:00

Collected By: MARK FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
03/18/2013					
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	0.490	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	1.57	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002676

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9546416

Page 2 of 2



Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive, PO Box 7996
 Madison, WI 53707-7996
 (800)442-4618 • FAX (608)224-6213
 http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002675

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 13810

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON RD

MCFARLAND WI 53558

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: PP009

Project No:

Date Received: 03/14/2013 11:07:00

Date Reported: 03/21/2013

Sample Reason:

Field #: FAUST SS-1

Collection Start: 03/13/2013 10:10:00

Collection End: 03/13/2013 11:01:00

Collected By: MARK FRYMAN

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment					
03/19/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.					
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
VINYL CHLORIDE	*IS <20	PPB V			20.	
TRANS-1,2-DICHLOROETHYLENE	*IS <20	PPB V			20.	
CIS-1,2-DICHLOROETHYLENE	*IS <20	PPB V			20.	
TRICHLOROETHYLENE	*IS <20	PPB V			20.	
TETRACHLOROETHYLENE	*IS 27	PPB V			20.	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

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WI DATCP ID: 105-415

WSLH Sample: OX002675

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Report #: 9546415

Page 2 of 2



Seymour

Environmental Services, Inc.

May 7, 2013

Tel: 608-838-9120
Fax: 608-838-9121

Duane and Renee Faust
1131 Gils Way
Cross Plains, Wisconsin 53528

RE: Vapor Intrusion Sampling
2415 University Avenue
Madison, Wisconsin


Dear Mr. and Ms. Faust:

Thank you for your cooperation with our investigation of Miller's Liquor. As you are aware we conducted both subslab sampling and indoor air sampling of your basement.

I have attached a table of our results showing that you have no compounds exceeding any standards. The laboratory reports are also attached.

If you have any questions please feel free to give Mark Fryman or me a call at (608) 838-9120 anytime. If you want to speak to someone at the WDNR the project manager is Jim Walden

Sincerely,
Seymour Environmental Services


Robyn Seymour (rseymour@chorus.net)
Hydrogeologist

Enclosure: Table of Results
Analytical Reports

TABLE
SUMMARY OF VAPOR INTRUSION SAMPLING RESULTS (March 13, 2013)
Miller's Liquor
2401 University Avenue - Madison, Wisconsin

Location	Sample ID	Tetrachloroethene (ppbv)	Trichloroethene (ppbv)	cis 1,2 dichloroethene (ppbv)	trans 1,2 dichloroethene (ppbv)	Vinyl chloride (ppbv)
Faust 2415 University	SS-1	27	<20	<20	<20	<20
	SS-2	1.57	<0.085	<0.085	0.490	<0.085
	Indoor	0.970	<0.085	<0.085	0.37	<0.085
Indoor Air Standard (ug/m3)		42	2.1	ne	63	1.6
Molecular Weight		165.83	131.39	96.94	96.94	62.5
Indoor Air Standard (ppbv)		6.2	0.39	ne	16	0.62
Subslab Standard (ppbv) (Attenuation factor 0.1)		62	3.9	ne	160	6.2
<ul style="list-style-type: none"> - Bold Values exceed indoor air action level - Shaded Values exceed subslab action level 						



Seymour

Environmental Services, Inc.

May 7, 2013

Tel: 608-838-9120
Fax: 608-838-9121

Jeremy Schmidt
2402 Kendall Avenue
Madison, Wisconsin 53726

RE: Vapor Intrusion Sampling
2402 Kendall Avenue
Madison, Wisconsin

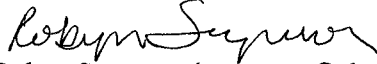
Mr. Schmidt:

Thank you for your cooperation with our investigation of Miller's Liquor. As you are aware we conducted both subslab sampling and indoor air sampling in your basement.

I have attached a table of our results showing that you have no compounds exceeding any standards. The laboratory reports are also attached.

If you have any questions please feel free to give Mark Fryman or me a call at (608) 838-9120 anytime. If you want to speak to someone at the WDNR the project manager is Jim Walden

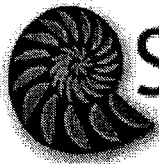
Sincerely,
Seymour Environmental Services


Robyn Seymour (rseymour@chorus.net)
Hydrogeologist

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Miller's Liquor
2401 University Avenue - Madison, Wisconsin

Location	Sample ID	Tetrachloroethene (ppbv)	Trichloroethene (ppbv)	cis 1,2 dichloroethene (ppbv)	trans 1,2 dichloroethene (ppbv)	Vinyl chloride (ppbv)
J. Schmidt 2402 Kendall	SS-1	<0.085	<0.085	<0.085	0.31	<0.085
	SS-2	0.290	<0.085	<0.085	0.32	<0.085
	Indoor	<0.085	<0.085	<0.085	0.26	<0.085
Indoor Air Standard (ug/m3)		42	2.1	ne	63	1.6
Molecular Weight		165.83	131.39	96.94	96.94	62.5
Indoor Air Standard (ppbv)		6.2	0.39	ne	16	0.62
Subslab Standard (ppbv) (Attenuation factor 0.1)		62	3.9	ne	160	6.2
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Seymour

Environmental Services, Inc.

May 7, 2013

Tel: 608-838-9120
Fax: 608-838-9121

Patrick Corcoran
2417 University Avenue
Madison, Wisconsin 53726

RE: Vapor Intrusion Sampling
2417 University Avenue
Madison, Wisconsin

Dear Mr. Corcoran:

Thank you for your cooperation with our investigation of Miller's Liquor. As you are aware we conducted both subslab sampling and indoor air sampling of your basement.

I have attached a table of our results showing that you have no compounds exceeding any standards. The laboratory reports are also attached.

If you have any questions please feel free to give Mark Fryman or me a call at (608) 838-9120 anytime. If you want to speak to someone at the WDNR the project manager is Jim Walden

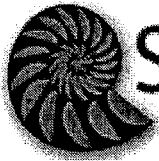
Sincerely,
Seymour Environmental Services

Robyn Seymour (rseymour@chorus.net)
Hydrogeologist

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TABLE
SUMMARY OF VAPOR INTRUSION SAMPLING RESULTS (March 13, 2013)
Miller's Liquor
2401 University Avenue - Madison, Wisconsin

Location	Sample ID	Tetrachloroethene (ppbv)	Trichloroethene (ppbv)	cis 1,2 dichloroethene (ppbv)	trans 1,2 dichloroethene (ppbv)	Vinyl chloride (ppbv)
Patrick Corcoran 2417 University	SS-1	<0.085	<0.085	<0.085	0.54	<0.085
	SS-2	0.330	<0.085	<0.085	0.69	<0.085
	Indoor	<0.085	<0.085	<0.085	<0.27	<0.085
Indoor Air Standard (ug/m3)		42	2.1	ne	63	1.6
Molecular Weight		165.83	131.39	96.94	96.94	62.5
Indoor Air Standard (ppbv)		6.2	0.39	ne	16	0.62
Subslab Standard (ppbv) (Attenuation factor 0.1)		62	3.9	ne	160	6.2
<ul style="list-style-type: none"> - Bold Values exceed indoor air action level - Shaded Values exceed subslab action level 						



Seymour

Environmental Services, Inc.

May 7, 2013

Tel: 608-838-9120
Fax: 608-838-9121

Wisconsin Kappa Psi
414 Chestnut Street
Madison, Wisconsin 53726

RE: Vapor Intrusion Sampling
2408 Kendall Avenue
Madison, Wisconsin

To whom it may concern:

Thank you for your cooperation with our investigation of Miller's Liquor. As you are aware we conducted both subslab sampling and indoor air sampling of your basement.

I have attached a table of our results showing that you have no compounds exceeding any standards. The laboratory reports are also attached.

If you have any questions please feel free to give Mark Fryman or me a call at (608) 838-9120 anytime. If you want to speak to someone at the WDNR the project manager is Jim Walden.

Sincerely,
Seymour Environmental Services

Robyn Seymour (rseymour@chorus.net)
Hydrogeologist

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TABLE
SUMMARY OF VAPOR INTRUSION SAMPLING RESULTS (March 13, 2013)
Miller's Liquor
2401 University Avenue - Madison, Wisconsin

Location	Sample ID	Tetrachloroethene (ppbv)	Trichloroethene (ppbv)	cis 1,2 dichloroethene (ppbv)	trans 1,2 dichloroethene (ppbv)	Vinyl chloride (ppbv)
Kappa Psi 414 Chestnut	Vent	0.65	<0.17	<0.17	0.93	<0.17
	Indoor	<0.085	<0.085	<0.085	0.29	<0.085
Indoor Air Standard (ug/m3)		42	2.1	ne	63	1.6
Molecular Weight		165.83	131.39	96.94	96.94	62.5
Indoor Air Standard (ppbv)		6.2	0.39	ne	16	0.62
Subslab Standard (ppbv) (Attenuation factor 0.1)		62	3.9	ne	160	6.2
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Seymour

Environmental Services, Inc.

May 7, 2013

Tel: 608-838-9120
Fax: 608-838-9121

Mary Lock Albrecht
413 Lone Pine Way
Verona, Wisconsin 53593

RE: Vapor Intrusion Sampling
413 Chestnut Street
Madison, Wisconsin

Dear Ms. Albrecht:

Thank you for your cooperation with our investigation of Miller's Liquor. As you are aware we conducted both subslab sampling and indoor air sampling of your basement.

I have attached a table of our results showing that you have no compounds exceeding any standards. The laboratory reports are also attached.

If you have any questions please feel free to give Mark Fryman or me a call at (608) 838-9120 anytime. If you want to speak to someone at the WDNR the project manager is Jim Walden

Sincerely,
Seymour Environmental Services

Robyn Seymour (rseymour@chorus.net)
Hydrogeologist

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Miller's Liquor
2401 University Avenue - Madison, Wisconsin

Location	Sample ID	Tetrachloroethene (ppbv)	Trichloroethene (ppbv)	cis 1,2 dichloroethene (ppbv)	trans 1,2 dichloroethene (ppbv)	Vinyl chloride (ppbv)
Mary Albrecht 413 Chestnut	SS-1	0.470	<0.085	<0.085	<0.085	<0.085
	SS-2	0.330	<0.085	<0.085	0.380	<0.085
	Indoor	0.790	<0.085	<0.085	<0.31	<0.085
Indoor Air Standard (ug/m3)		42	2.1	ne	63	1.6
Molecular Weight		165.83	131.39	96.94	96.94	62.5
Indoor Air Standard (ppbv)		6.2	0.39	ne	16	0.62
Subslab Standard (ppbv) (Attenuation factor 0.1)		62	3.9	ne	160	6.2
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