

**From:** George Beyer <george@christchurchmke.org>  
**Sent:** Tuesday, March 07, 2023 11:54 AM  
**To:** Hedman, Curtis J - DHS  
**Cc:** Michalets, Linda M - DNR  
**Subject:** Christ Church Milwaukee February TCE Testing Results  
**Attachments:** 2023020978 Assay Tech-CCM 02-28-23.pdf; CCM Air Sampling March 2022 - February 2023 wAverage.pdf

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Hi Curtis,

Attached is the latest Assay Technology Lab Report and our summary of testing results March 2022 through February 2023.

Good news -- the February 14th to 24th sampling of indoor TCE concentration showed levels comparable to the lowest recorded in November 2022. Outdoor levels measured in the alley and at the rooftop were much lower compared to the January samples.

The average TCE concentration in occupied areas was 4.8 ug/m<sup>3</sup>, well below the 8.8 ug/m<sup>3</sup> Wisconsin DNR Indoor Air Vapor Action Level (VAL) for small commercial buildings.

Apparently operating the HVAC system in occupied mode from 8:00 AM to 8:00 PM daily since December 29th has reduced TCE concentration inside the building. No other changes were made during this period. We will stick to standard air filters in the HVAC units rather than changing them back to carbon filters.

Our next air samples will be collected April 4th through April 14th since I plan to be away March 15-29th.

George  
(262) 271-6040

**Customer:** CHRIST CHURCH MILWAUKEE  
**Attention:** GEORGE BEYER  
**Address:** 1422 N VEL R PHILLIPS AVE  
MILWAUKEE, WI 53212  
USA

**Lab Work Order:** 2023020978

**Customer No.:** 64133  
**Received Date:** February 28, 2023  
**Date Reported:** March 07, 2023

**Project ID:** 1422 VEL PHILLIPS

**Phone No.:** (262) 271-6040  
**Fax No.:**

**PO No.:**

Exposure results are the average concentration for the period of time monitored. '<' means the result is 'less than the RptLmt'. RptLmt = Reporting Limit. The results relate only to the items tested. Unless noted below, samples were received in acceptable condition, all applicable quality control were within method specifications, lab blanks were subtracted before a result was reported, and any customer supplied field blanks were not subtracted from sample results. The molar volume at 25 C (24.45 L/mole) was used to calculate parts per million, ppm. Air concentrations reported are based upon field sampling information provided by the customer. For assistance with the content of this report, please visit the Customer Support section of our web site at <http://www.assaytech.com> or contact Technical Support at 1-800-833-1258. For details of significant method modifications go to [www.assaytech.com/method](http://www.assaytech.com/method).

Lab Sample ID	Lab Code	Date Sampled	Client Sample ID	Media	Media Lot / Serial #	Analytes Requested	Quantity Found			Sample Time		Concentration	
							Total	RptLmt	Units	Vol. (L)	(min)	Found	Units
23008909	ATOH	02/14/2023	FIRST FLOOR - NE REAR CAGE	525	10A22 - QA01401	TRICHLOROETHYLENE	5.95	2.0	UG	1050	14353	0.0011	PPM
Analyzed By: MWAGNER			Analyzed On: 3/4/2023			Approved By: KTAYLOR			Approved On: 3/7/2023				
23008910	ATOH	02/14/2023	BASEMENT- PRINTING WORK ROOM CAGE	525	10A22 - QA02613	TRICHLOROETHYLENE	14.0	2.0	UG	1040	14312	0.0025	PPM
Analyzed By: MWAGNER			Analyzed On: 3/4/2023			Approved By: KTAYLOR			Approved On: 3/7/2023				
23008911	ATOH	02/14/2023	FIRST FLOOR- GALLERY SOUTH SIDE CENTER	525	10A22 - QA02514	TRICHLOROETHYLENE	5.80	2.0	UG	1050	14359	0.0010	PPM
Analyzed By: MWAGNER			Analyzed On: 3/4/2023			Approved By: KTAYLOR			Approved On: 3/7/2023				
23008912	ATOH	02/14/2023	FIRST FLOOR- WEST STAIR EXIT DOOR	525	10A22 - QA01468	TRICHLOROETHYLENE	19.9	2.0	UG	1050	14361	0.0035	PPM
Analyzed By: MWAGNER			Analyzed On: 3/4/2023			Approved By: KTAYLOR			Approved On: 3/7/2023				
23008913	ATOH	02/14/2023	FIRST FLOOR- NW CORNER OFFICE	525	10A22 - QA02462	TRICHLOROETHYLENE	4.64	2.0	UG	1050	14356	0.00082	PPM
Analyzed By: MWAGNER			Analyzed On: 3/4/2023			Approved By: KTAYLOR			Approved On: 3/7/2023				
23008914	ATOH	02/14/2023	OUTDOOR- ROOFTOP UNIT #1	525	10A22 - QA03289								

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							Total	RptLmt	Units	Vol. (L)	Time (min)	Found	Units
23008914	ATOH	02/14/2023	OUTDOOR- ROOFTOP UNIT #1	525	10A22 - QA03289	TRICHLOROETHYLENE	<	2.0	UG	1050	14364	<	0.00036 PPM
Analyzed By: MWAGNER		Analyzed On: 3/4/2023		Approved By: KTAYLOR		Approved On: 3/7/2023							
23008915	ATOH	02/14/2023	SECOND FLOOR- NURSERY	525	10A22 - QA01782	TRICHLOROETHYLENE	4.11	2.0	UG	1050	14369	0.00073	PPM
Analyzed By: MWAGNER		Analyzed On: 3/4/2023		Approved By: KTAYLOR		Approved On: 3/7/2023							
23008916	ATOH	02/14/2023	SECOND FLOOR- MOTHERS ROOM	525	10A22 - QA02546	TRICHLOROETHYLENE	4.86	2.0	UG	1050	14371	0.00086	PPM
Analyzed By: MWAGNER		Analyzed On: 3/4/2023		Approved By: KTAYLOR		Approved On: 3/7/2023							
23008917	ATOH	02/14/2023	OUTDOOR- ALLEY	525	10A22 - QA02426	TRICHLOROETHYLENE	37.8	2.0	UG	1050	14347	0.0067	PPM
Analyzed By: MWAGNER		Analyzed On: 3/4/2023		Approved By: KTAYLOR		Approved On: 3/7/2023							
23008918	ATOH	02/14/2023	SECOND FLOOR- NE CONFERENCE ROOM	525	10A22 - QA02626	TRICHLOROETHYLENE	3.60	2.0	UG	1050	14354	0.00064	PPM
Analyzed By: MWAGNER		Analyzed On: 3/4/2023		Approved By: KTAYLOR		Approved On: 3/7/2023							

Method References:

TestCode	Analytes Requested	Method Reference	Regulatory Agency	TWA Limit	STEL Limit	Exposure Units
79016A	TRICHLOROETHYLENE	AT L-OV (GC/FID)	OSHA PEL/CEILING	100	200	PPM

Applicable OSHA PELs or NIOSH RELS have been included in this lab report for guidance, but may not be sufficient for regulatory compliance. Clients should be aware that more stringent international, state, local, or organizational exposure limits may supersede the limits included with this report. Visit [www.OSHA.gov/dsg/annotated-pels](http://www.OSHA.gov/dsg/annotated-pels) for detailed information on exposure limits and OSHA policies.

**Trichlorethylene (TCE) Air Vapor Levels**  
1422 N. Vel R. Phillips Avenue

Sampling Dates	3/3 - 3/15	3/18 - 4/1	3/18 - 4/1	4/19 - 4/30	6/6 - 6/16	7/9 - 7/19	7/27	7/20 - 7/27	7/20 - 8/3	8/26 - 9/5	9/27 - 10/7	11/1 - 11/11	12/5 - 12/15	1/03 - 1/13	1/29/2023	2/14 - 2/24
Sampling Duration	10 Days	14 Days	14 Days	10 Days	10 Days	10 Days	8 Hours	7 Days	14 Days	10 Days	10 Days	10 Days	10 Days	10 Days	4 Hours	10 Days
Testing Laboratory	AT	WOH	Beacon	AT	AT	AT	WOH	WOH	WOH	AT	AT	AT	AT	AT	WOH	AT
Outside - Alley	---	67.0	57.5	89.2	104.0	91.4	302.0	380.0	210.0	124.0	68.8	46.5	57.9	157.0	8.8	37.8
Outside - (Back or SE Corner of Bldg)	---	2.0	2.0	---	---	---	---	---	6.2	---	---	---	---	---	---	---
Basement - Center Corridor (Further Back)	17.5	17.0	---	---	---	---	4.4	12.0	11.0	---	---	---	---	---	3.7	---
Basement - Print Cage (Slot Vents)	---	27.0	39.9	42.6	15.4	16.6	9.0	12.0	16.0	16.9	12.6	10.9	39.1	32.4	---	14.0
1st Flr - NW Office (Near Entrance)	6.1	15.0	20.5	23.9	8.0	9.0	4.3	7.0	6.3	5.0	5.5	4.3	26.5	12.5	3.2	4.6
1st Flr - Gallery (Near Keyboard)	9.1	16.0	22.5	20.5	7.5	8.0	2.1	7.2	6.7	5.7	5.8	4.6	20.1	14.1	3.6	5.8
1st Flr - Rear Cage	10.6	---	---	17.1	9.0	8.8	---	---	---	6.8	5.4	4.7	19.6	14.1	---	6.0
1st Flr - West Stair Exit Door	---	---	---	190.0	31.6	32.1	---	---	---	20.9	12.6	20.7	93.9	51.3	---	19.9
2nd Flr - Mother's Room (Near Stairs)	6.3	15.0	19.2	20.3	7.2	8.0	5.0	6.1	4.8	6.2	5.1	3.8	17.0	12.2	2.3	4.9
2nd Flr - Nursery	7.2	---	---	15.6	6.7	7.8	---	---	---	6.7	5.3	4.7	13.1	9.7	---	4.1
2nd Flr - East Conf Room (Further Back)	7.7	15.0	18.5	16.6	6.0	6.6	4.5	6.1	4.6	8.0	4.8	4.0	11.5	7.9	2.2	3.6
Rooftop - 1st Flr Rooftop HVAC	---	8.25	---	2.9	3.1	6.5	---	---	---	<2.0	10.7	<2.0	8.1	7.7	---	<2.0
Average TCE in Occupied Area	7.8	15.3	20.2	19.0	7.4	8.0	4.0	6.6	5.6	6.4	5.3	4.3	18.0	11.7	2.8	4.8

Notes:

TCE Concentration reported in Micrograms per Cubic Meter (ug/m3)

Wisconsin DNR Indoor Air Vapor Action Level (VAL) for small commercial buildings is 8.8 ug/m3. Immediate Action Criteria for Indoor Air = 3 x VAL (26.4 ug/m3)

Sample locations in parantheses are Wisconsin Department of Health Services (WDHS) descriptions

AT = Assay Technology Laboratory

WOH = State of Wisconsin Occupational Health Laboratory

Beacon = Beacon Environmental Laboratory

Occupied Areas = Excludes outdoor, basement and stairwell samples