

From: Ziegelbauer, Heather/MKE <Heather.Ziegelbauer@jacobs.com>
Sent: Monday, May 04, 2020 3:58 PM
To: Dodds, Jennifer
Cc: Carey, Angela J - DNR; Rick Dewey Bethel; Jeffrey Howard Danko
Subject: RE: Tyco - EPA Request for FA and VI Assessment Update
Attachments: 2004241_d.pdf; J180517-1 UDS Level 2 Report Final Report.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Jennifer, On behalf of Tyco, attached are the April 9, 2020 Building 14 VI sampling laboratory reports. The same locations/samples were collected as the February 11, 2020 event that is detailed in the email trail below (with the same IDs, except for the date).

All air sample results were non-detect for the analyzed parameters (vinyl chloride, cis-1,2-dichloroethene, and trichloroethene) with reporting limits below applicable indoor air screening levels. The groundwater and wastewater treatment facility influent samples also were non-detect.

The non-residential building indoor air evaluation form sent in your April 29, 2020 email is currently being filled out for Building 14 and will be sent in a separate email.

Please let us know if you have any questions.

Thanks,

Heather Ziegelbauer, PE* | [Jacobs](#) | Project Manager
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1610 N. 2nd Street, Suite 201 | Milwaukee, WI 53202 | USA
*Wisconsin

From: Ziegelbauer, Heather/MKE
Sent: Tuesday, March 3, 2020 4:49 PM
To: Dodds, Jennifer <dodds.jennifer@epa.gov>
Cc: Angie Carey (Angela.Carey@wisconsin.gov) <Angela.Carey@wisconsin.gov>; Rick Dewey Bethel <rick.dewey.bethel@jci.com>; Jeffrey Howard Danko <jeffrey.howard.danko@jci.com>
Subject: FW: Tyco - EPA Request for FA and VI Assessment Update

Jennifer, On behalf of Tyco and per your request in the email below, here is a summary of the VI sampling at Building 14.

Building 14 Preliminary VI Sampling Results

Five indoor air samples, including one duplicate, and one outdoor air sample were collected at Building 14 on February 11, 2020. All air sample results were non-detect for the analyzed parameters (vinyl chloride, cis-1,2-dichloroethene, and trichloroethene) with reporting limits below applicable indoor air screening levels. See attached level 2 laboratory report 2002336. Samples were collected from the following locations:

- One indoor air sample and a duplicate were collected from the office/lunchroom area in the central portion of the building (sample IDs B14-IA004-20200211 and B14-IA004-20200211-D)

- One indoor air sample was collected from the wastewater treatment area in the eastern portion of the building (sample ID B14-IA003-20200211)
- One indoor air sample was collected from the groundwater treatment area in the western portion of the building (sample ID B14-IA002-20200211)
- One indoor air sample was collected in the extended western portion of the building where the Vibratory Shear Enhanced Processing units are located (sample ID B14-IA001-20200211)
- One outdoor (ambient) air sample was collected on the north side of the building near the air intake (sample ID B14-OA005-20200211)

Concurrent with the indoor air sampling, the groundwater and wastewater treatment facility influent samples also were non-detect for the same analyzed parameters (sample IDs B14-INGWCTS-20200211 and B14-INWWTP-20200211). See attached level 2 laboratory report J177806-1.

Please let us know if you have any questions.

Heather Ziegelbauer, PE* | [Jacobs](#) | Project Manager
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From: Dodds, Jennifer [<mailto:dodds.jennifer@epa.gov>]
Sent: Tuesday, March 03, 2020 1:34 PM
To: Jeffrey Howard Danko <jeffrey.howard.danko@jci.com>
Cc: angela.carey@wisconsin.gov; Rick Bethel <rick.dewey.bethel@jci.com>; Clarizio, Richard <Clarizio.Richard@epa.gov>; Abrams, Justin <abrams.justin@epa.gov>
Subject: Tyco - EPA Request for FA and VI Assessment Update

Mr. Danko,

Per EPA's February 4, 2020 letter (see attached) approving the 2020 Cost Estimate for the Tyco Fire Products Facility in Marinette, WI (EPA ID: WID 006 125 215), the financial assurance instrument was due into the Agency by February 28, 2020. To date, I have not received a copy of the required instrument. Please provide a status update on this by COB tomorrow, March 4, 2020.

Additionally, EPA is requesting an update on any preliminary data from the VI sampling that recently took place in Building 14.

I look forward to a quick response to both of these requests. Please respond via email so all parties are aware.

Thank you,

Jennifer Dodds
U.S. Environmental Protection Agency, Region 5
Land, Chemicals and Redevelopment Division

77 West Jackson Blvd, LR-16J
Chicago, IL 60604-3590
Tel: (312) 886-1484
dodds.jennifer@epa.gov

From: Jeffrey Howard Danko <jeffrey.howard.danko@jci.com>
Sent: Thursday, February 6, 2020 1:43 PM
To: Dodds, Jennifer <dodds.jennifer@epa.gov>
Cc: angela.carey@wisconsin.gov; Rick Bethel <rick.dewey.bethel@jci.com>
Subject: RE: Tyco - EPA Request for VI Assessment Update

We are scheduled to be taking the samples in Building 14 next week. In addition, the response to comments on VI Work Plan are under internal review and should be to the agencies next week.

Also to let you know Jacobs is nearing completion of the draft porewater investigation report and the annual report. Following internal review, they will be submitted to the agencies.

Per discussion today, we will set up a meeting for the week of April 27, most likely for the 29th at the Marinette site.

Jeffrey Danko
EHS Manager – Environmental Remediation
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From: Dodds, Jennifer [<mailto:dodds.jennifer@epa.gov>]
Sent: Wednesday, February 05, 2020 2:34 PM
To: Jeffrey Howard Danko <jeffrey.howard.danko@jci.com>

Cc: angela.carey@wisconsin.gov

Subject: Tyco - EPA Request for VI Assessment Update

Mr. Danko,

Please provide an update on your progress related to the September 27, 2019 Vapor Intrusion Assessment and Work Plan. Additionally, EPA is requesting an update on the vapor intrusion assessment of Building 14 by COB February 7, 2020 as this pathway was identified as a priority by EPA and WDNR in our December 18, 2019 comment letter.

Thank you,

Jennifer Dodds
U.S. Environmental Protection Agency, Region 5
Land, Chemicals and Redevelopment Division
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From: Dodds, Jennifer

Sent: Thursday, December 19, 2019 8:25 AM

To: 'Jeffrey Howard Danko' <jeffrey.howard.danko@jci.com>

Cc: Moore, Tammy <moore.tammy@epa.gov>; Clarizio, Richard <Clarizio.Richard@epa.gov>; 'Carey, Angela J - DNR' <Angela.Carey@wisconsin.gov>

Subject: EPA Review of Tyco 9-27-19 VI Work Plan - 12-18-19

Mr. Danko,

Please find attached an electronic copy of the December 18, 2019 EPA review of the September 27, 2019 Vapor Intrusion Assessment and Work Plan (VI Work Plan) for the Tyco Fire Products LP, Stanton Street Facility, located in Marinette, Wisconsin. The September 2019 VI Work Plan was reviewed by both EPA and WDNR and a signed copy of this comment letter was mailed out to you. Should you have any questions regarding this matter, please let me know.

Thank you,

Jennifer Dodds
U.S. Environmental Protection Agency, Region 5
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4/21/2020

Ms. Kaye Walker

Jacobs (formerly CH2M Hill)

4121 Carmichael Road

Suite 400

Montgomery AL 36106

Project Name: 2020 Indoor Air Sampling

Project #: D3235600

Workorder #: 2004241

Dear Ms. Kaye Walker

The following report includes the data for the above referenced project for sample(s) received on 4/13/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker

Project Manager

WORK ORDER #: 2004241

Work Order Summary

CLIENT:	Ms. Kaye Walker Jacobs (formerly CH2M Hill) 4121 Carmichael Road Suite 400 Montgomery, AL 36106	BILL TO:	Ms. Kaye Walker Jacobs (formerly CH2M Hill) 4121 Carmichael Road Suite 400 Montgomery, AL 36106
PHONE:	334-215-9058	P.O. #	
FAX:	334-277-5763	PROJECT #	D3235600 2020 Indoor Air Sampling
DATE RECEIVED:	04/13/2020	CONTACT:	Brian Whittaker
DATE COMPLETED:	04/21/2020		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	B14-IA001-20200409	Modified TO-15	6.3 "Hg	5.2 psi
02A	B14-IA002-20200409	Modified TO-15	6.7 "Hg	5.2 psi
03A	B14-IA003-20200409	Modified TO-15	5.3 "Hg	4.8 psi
04A	B14-IA004-20200409	Modified TO-15	5.7 "Hg	5.1 psi
05A	B14-IA004-20200409-D	Modified TO-15	7.1 "Hg	4.9 psi
06A	B14-OA005-20200409	Modified TO-15	5.5 "Hg	5 psi
07A	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 04/21/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15
Jacobs (formerly CH2M Hill)
Workorder# 2004241

Six 6 Liter Summa Canister (100% Cert Ambient) samples were received on April 13, 2020. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B14-IA001-20200409

Lab ID#: 2004241-01A

No Detections Were Found.

Client Sample ID: B14-IA002-20200409

Lab ID#: 2004241-02A

No Detections Were Found.

Client Sample ID: B14-IA003-20200409

Lab ID#: 2004241-03A

No Detections Were Found.

Client Sample ID: B14-IA004-20200409

Lab ID#: 2004241-04A

No Detections Were Found.

Client Sample ID: B14-IA004-20200409-D

Lab ID#: 2004241-05A

No Detections Were Found.

Client Sample ID: B14-OA005-20200409

Lab ID#: 2004241-06A

No Detections Were Found.

Client Sample ID: B14-IA001-20200409

Lab ID#: 2004241-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041507	Date of Collection:	4/9/20 16:10:00
Dil. Factor:	1.72	Date of Analysis:	4/15/20 10:44 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected

Container Type: 6 Liter Summa Canister (100% Cert Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: B14-IA002-20200409

Lab ID#: 2004241-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041508	Date of Collection:	4/9/20 16:15:00
Dil. Factor:	1.74	Date of Analysis:	4/15/20 11:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Trichloroethene	0.17	Not Detected	0.94	Not Detected

Container Type: 6 Liter Summa Canister (100% Cert Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: B14-IA003-20200409

Lab ID#: 2004241-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041509	Date of Collection:	4/9/20 16:27:00
Dil. Factor:	1.61	Date of Analysis:	4/15/20 12:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected

Container Type: 6 Liter Summa Canister (100% Cert Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: B14-IA004-20200409

Lab ID#: 2004241-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041510	Date of Collection:	4/9/20 16:50:00
Dil. Factor:	1.66	Date of Analysis:	4/15/20 12:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.42	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Trichloroethene	0.17	Not Detected	0.89	Not Detected

Container Type: 6 Liter Summa Canister (100% Cert Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: B14-IA004-20200409-D

Lab ID#: 2004241-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041511	Date of Collection:	4/9/20 16:51:00
Dil. Factor:	1.75	Date of Analysis:	4/15/20 01:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Trichloroethene	0.18	Not Detected	0.94	Not Detected

Container Type: 6 Liter Summa Canister (100% Cert Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: B14-OA005-20200409

Lab ID#: 2004241-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041512	Date of Collection:	4/9/20 16:34:00
Dil. Factor:	1.64	Date of Analysis:	4/15/20 02:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Cert Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: Lab Blank

Lab ID#: 2004241-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041506	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/15/20 09:53 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: CCV

Lab ID#: 2004241-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/20 07:03 AM

Compound	%Recovery
Vinyl Chloride	96
cis-1,2-Dichloroethene	92
Trichloroethene	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: LCS

Lab ID#: 2004241-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/20 07:46 AM

Compound	%Recovery	Method Limits
Vinyl Chloride	110	70-130
cis-1,2-Dichloroethene	92	70-130
Trichloroethene	106	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: LCSD

Lab ID#: 2004241-09AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/20 08:24 AM

Compound	%Recovery	Method Limits
Vinyl Chloride	112	70-130
cis-1,2-Dichloroethene	92	70-130
Trichloroethene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	93	70-130

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-180517-1
Client Project/Site: Building 14

For:

Tyco Fire Protection Products
1 Stanton St
Marinette, Wisconsin 54143

Attn: Mr. Ryan Suennen



Authorized for release by:
4/17/2020 1:21:03 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Job ID: 500-180517-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-180517-1

Receipt

The samples were received on 4/10/2020 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Client Sample ID: 1314-INGWCTS-20200409

Lab Sample ID: 500-180517-1

No Detections.

Client Sample ID: 1314-INWWTP-20200409

Lab Sample ID: 500-180517-2

No Detections.

Client Sample ID: TB001-20200409

Lab Sample ID: 500-180517-3

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-180517-1	1314-INGWCTS-20200409	Water	04/09/20 10:05	04/10/20 09:45	
500-180517-2	1314-INWWTP-20200409	Water	04/09/20 10:10	04/10/20 09:45	
500-180517-3	TB001-20200409	Water	04/09/20 10:45	04/10/20 09:45	

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Client Sample Results

Client: Tyco Fire Protection Products
 Project/Site: Building 14

Job ID: 500-180517-1

Client Sample ID: 1314-INGWCTS-20200409

Lab Sample ID: 500-180517-1

Date Collected: 04/09/20 10:05

Matrix: Water

Date Received: 04/10/20 09:45

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/13/20 17:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/13/20 17:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/13/20 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		71 - 127		04/13/20 17:04	1
4-Bromofluorobenzene (Surr)	114		71 - 120		04/13/20 17:04	1
Dibromofluoromethane (Surr)	102		70 - 120		04/13/20 17:04	1
Toluene-d8 (Surr)	96		75 - 120		04/13/20 17:04	1

Client Sample Results

Client: Tyco Fire Protection Products
 Project/Site: Building 14

Job ID: 500-180517-1

Client Sample ID: 1314-INWWTP-20200409

Lab Sample ID: 500-180517-2

Date Collected: 04/09/20 10:10

Matrix: Water

Date Received: 04/10/20 09:45

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/13/20 17:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/13/20 17:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/13/20 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		71 - 127		04/13/20 17:29	1
4-Bromofluorobenzene (Surr)	112		71 - 120		04/13/20 17:29	1
Dibromofluoromethane (Surr)	102		70 - 120		04/13/20 17:29	1
Toluene-d8 (Surr)	98		75 - 120		04/13/20 17:29	1

Client Sample Results

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Client Sample ID: TB001-20200409

Lab Sample ID: 500-180517-3

Date Collected: 04/09/20 10:45

Matrix: Water

Date Received: 04/10/20 09:45

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/13/20 13:15	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/13/20 13:15	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/13/20 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		71 - 127		04/13/20 13:15	1
4-Bromofluorobenzene (Surr)	112		71 - 120		04/13/20 13:15	1
Dibromofluoromethane (Surr)	97		70 - 120		04/13/20 13:15	1
Toluene-d8 (Surr)	102		75 - 120		04/13/20 13:15	1

Definitions/Glossary

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

GC/MS VOA

Analysis Batch: 537771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180517-1	1314-INGWCTS-20200409	Total/NA	Water	624	
500-180517-2	1314-INWWTP-20200409	Total/NA	Water	624	
500-180517-3	TB001-20200409	Total/NA	Water	624	
MB 500-537771/7	Method Blank	Total/NA	Water	624	
LCS 500-537771/5	Lab Control Sample	Total/NA	Water	624	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(71-127)	(71-120)	(70-120)	(75-120)
500-180517-1	1314-INGWCTS-20200409	100	114	102	96
500-180517-2	1314-INWWTP-20200409	97	112	102	98
500-180517-3	TB001-20200409	90	112	97	102
LCS 500-537771/5	Lab Control Sample	89	107	98	98
MB 500-537771/7	Method Blank	94	112	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-537771/7
Matrix: Water
Analysis Batch: 537771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/13/20 11:08	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/13/20 11:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/13/20 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		71 - 127		04/13/20 11:08	1
4-Bromofluorobenzene (Surr)	112		71 - 120		04/13/20 11:08	1
Dibromofluoromethane (Surr)	99		70 - 120		04/13/20 11:08	1
Toluene-d8 (Surr)	99		75 - 120		04/13/20 11:08	1

Lab Sample ID: LCS 500-537771/5
Matrix: Water
Analysis Batch: 537771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	45.9		ug/L		92	18 - 190
1,2-Dichloroethane	50.0	43.3		ug/L		87	49 - 155
1,4-Dichlorobenzene	50.0	44.7		ug/L		89	18 - 190
Benzene	50.0	48.3		ug/L		97	37 - 151
Chlorobenzene	50.0	48.5		ug/L		97	37 - 160
Chloromethane	50.0	48.1		ug/L		96	10 - 273
Ethylbenzene	50.0	51.3		ug/L		103	37 - 162
Methylene Chloride	50.0	53.1		ug/L		106	10 - 221
Toluene	50.0	47.7		ug/L		95	47 - 150
Trichloroethene	50.0	46.2		ug/L		92	71 - 157
Vinyl chloride	50.0	58.4		ug/L		117	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		71 - 127
4-Bromofluorobenzene (Surr)	107		71 - 120
Dibromofluoromethane (Surr)	98		70 - 120
Toluene-d8 (Surr)	98		75 - 120

Lab Chronicle

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Client Sample ID: 1314-INGWCTS-20200409

Lab Sample ID: 500-180517-1

Date Collected: 04/09/20 10:05

Matrix: Water

Date Received: 04/10/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	537771	04/13/20 17:04	JDD	TAL CHI

Client Sample ID: 1314-INWWTP-20200409

Lab Sample ID: 500-180517-2

Date Collected: 04/09/20 10:10

Matrix: Water

Date Received: 04/10/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	537771	04/13/20 17:29	JDD	TAL CHI

Client Sample ID: TB001-20200409

Lab Sample ID: 500-180517-3

Date Collected: 04/09/20 10:45

Matrix: Water

Date Received: 04/10/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	537771	04/13/20 13:15	JDD	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tyco Fire Protection Products
Project/Site: Building 14

Job ID: 500-180517-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

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Address: 2417 Bond St. University Park, IL 60484

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <u>Kaye Walker</u>		Site Contact: <u>Kaye Walker</u>		Date: <u>4-9-20</u>		COC No: <u>1</u>		
Company Name: <u>Tyco Fire Products LP - Vicki M.</u>		Tel/Email: <u>334-215-9058 Kaye Walker</u>		Lab Contact: <u>Richard Wright</u>		Carrier:		1 of 1 COCs		
Address: <u>1 Stanton St.</u>		Analysis Turnaround Time								
City/State/Zip: <u>Marinette, WI 54143</u>		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS								
Phone: <u>715-587-5721</u>		TAT if different from Below _____								
Fax:		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								
Project Name: <u>2020 Indoor Air Sampling</u>		 500-180517 COC								
Site: <u>Building 14 - Tyco Stanton St. Site</u>										
PO# <u>direct bill Tyco - No PO</u>										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:		
1 B14-INGWCTS-20200409	4-9-20	1005	G water		3	N	N	X	X	
2 B14-INWWTP-20200409	4-9-20	1010	G water		3	N	N	X	X	
3 TB001-20200409	4-9-20	1045	-	water	1	N	N	X	X	trip blank
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other _____										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <u>Non preserve short hold time. VOCs EPA Method 624 (only TCE, cis-1,2-DCE, vinyl chloride)</u>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>100703</u>		Cooler Temp. (°C): Obs'd: <u>1.3</u>		Corr'd:		Therm ID No.:		
Relinquished by: <u>Katherine Wilson</u>		Company: <u>Jacobs</u>		Date/Time: <u>4-9-20 1130</u>		Received by:		Company: _____		
Relinquished by:		Company:		Date/Time:		Received by:		Company: _____		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>Stephanie Hernandez</u>		Company: <u>TA-GHI</u>		
								Date/Time: <u>4/10/20 0945</u>		

00212

00300

FedEx Package **US Airbill**
Express

FedEx Tracking Number **8146 6481 2803**

1 From

Date 04-04-20

Sender's Name Robin Lidgen Phone 505 941-0137

Company S&B

Address 1 Stanton St
Dept./Floor/Suite/Room

City Minnette State ND ZIP 58714

2 Your Internal Billing Reference

3 To

Recipient's Name Richard Phone 701 221 3000

Company ...

Address ...
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address ...
Use this line for the HOLD location address or for continuation of your shipping address.

City ... State ... ZIP ...

Hold Weekday
FedEx location address
REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address
REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

fedex.com 1800.GoFedEx 1800.463.3339

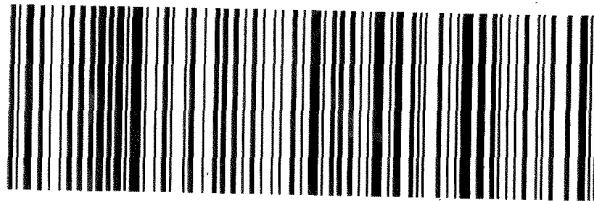


FedEx
TRK# **0215 8146 6481 2803**

FRI - 10 APR 10:30A
PRIORITY OVERNIGHT

NA JOTA

60484
IL-US
ORD



FTD 3604346 09APR20 GRBA 56RC3/9C25/05A2

4 Express Package Ser **0215**

500-180517 Way

Next Business Day

FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required
Package may be left without obtaining a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery.

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

No Yes Yes Dry Ice Cargo Aircraft Only

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check

Total Weight 10 lbs. Credit Card Auth. **611**

*Unless you declare a higher value. See the current FedEx Service Guide for details.

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16QT

Login Sample Receipt Checklist

Client: Tyco Fire Protection Products

Job Number: 500-180517-1

Login Number: 180517

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

