# Konicek Environmental Consulting, LLC

March 31, 2022

John Feeney
Wisconsin Department of Natural Resources
1155 Pilgrim Road
Plymouth, Wisconsin 53073

Reference: Ol' Tyme Cleaners – Hawthorne Manor Vapor Results
910 S. Main Street
West Bend, Wisconsin 53095
BRRTs #02-67-576350

Dear Mr. Feeney:

On March 16, 2022, Konicek Environmental Consulting, LLC (KEC) collected one sub-slab vapor and one indoor air sample from the Hawthorne Manor building located at 321 Hawthorne Drive in West Bend, WI. Due to excess in internal canister supply, KEC collected an additional vapor sample from the outside air.

The sub-slab vapor sample (SS-H) was performed within the building basement, the indoor air vapor sample (IA-H) was conducted on the first floor of the building, and the outdoor air vapor sample (OA-H) was collected outside the southern exterior of the Hawthorne Manor building. The 6-liter summa canisters were allowed to collect the respective vapor samples over a time period of 30 minutes consistent with flow control calibrations. The canisters were submitted to Pace Analytical for laboratory analysis of Chlorinated Volatile Organic Compounds (CVOC) TO-15 method.

The laboratory analytical sample results did not identify *any* CVOCs above Residential Vapor Risk Screening Level (VRSL) regulatory standards. SS-H was identified with a 42.7 ug/$m^3$ of Tetrachloroethene (PCE), the Residential VRSL regulatory standard for this compound is 1,400 ug/$m^3$. The resulting PCE concentration is greater than 30 times lower in concentration than the VRSL regulatory standard. In addition, IA-H collected from within the 1st floor living area of the building was not identified with *any* CVOC concentrations above the laboratory detection limits. The OA-H (outdoor air) vapor sample was identified with a Trichloroethene (TCE) concentration of 2.2 ug/$m^3$ and a PCE concentration of 5.5 ug/$m^3$. It is the opinion of KEC that the PCE and TCE concentrations identified in OA-H did not originate from the subject site and is not representative of outdoor air conditions present.

Based on the laboratory analytical results, it is the opinion of KEC there is no evidence of active vapor intrusion or sufficient health risk to off-site building occupants. As such, it is the opinion of KEC no further site investigation (SI) work is considered warranted and the site should proceed to case closure.

If you have any questions, please do not hesitate to call.

Sincerely,

Konicek Environmental Consulting, LLC

Greg Konicek

Gregory A. Konicek, P.G., CHMM

Attachments: Hawthorne Manor Vapor Table, Laboratory Analytical Results, and Hawthorne Site Diagram

**Table A.4. Vapor Analytical Table**

**BRRTS#: 02-57-576350**

**Hawthorne Manor**

**321 Hawthorne Drive West Bend, WI**

| Sample Location: | **Ambient Air Vapor Samples** | | **Indoor Air Vapor Action Level** | |
|---|---|---|---|---|
| Sample Identification: | IA-H | OA-H | Residential (1-in-100,000 risk for carcinogens) | c-Carcinogenic; nc-Non-Carcinogenic |
| Date: | 3/16/22 | 3/16/22 | | |
| Units: | ug/$m^3$ | ug/$m^3$ | µg/$m^3$ | |
| cis-1,2-Dichloroethene | <0.34 | <0.35 | --- | --- |
| trans-1,2-Dichloroethene | <0.29 | <0.30 | 42 | --- |
| Tetrachloroethene | <0.51 | 5.5 | 42 | nc |
| Trichloroethene | <0.34 | *2.2* | 2.1 | nc |
| Vinyl Chloride | <0.15 | <0.16 | 1.7 | c |

***Notes:***

µg/$m^3$ - micrograms per cubic meter

Bold concentrations exceed Non-Residential Standard

*Italicised* and Underlined concentrations exceed Residential Standard

--- -not analyzed, not applicable, not detected, or no standard established

Samples were collected by Konicek Environmental Consultants LLC

Action levels obtained and calculated from values referenced in the EPA VISL Calculator and the September 2021 RR-0136 update

**Table A.4. Vapor Analytical Table**

**BRRTS#: 02-57-576350**

**Hawthorne Manor**

**321 Hawthorne Drive West Bend, WI**

| Sample Location: | Sub-slab Vapor Samples | Vapor Risk Screening Level (VRSL) of Indoor Air concentrations from sub-slab vapor/soil gas/deep soil gas | |
|---|---|---|---|
| Sample Identification: | SS-H | | |
| Date: | 3/16/22 | Residential Sub-slab/Soil Vapor Attenuation Factor (AF) = 0.03 | c-Carcinogenic; nc- Non-Carcinogenic |
| Units: | µg/m$^3$ | µg/m$^3$ | |
| cis-1,2-Dichloroethene | <0.33 | --- | --- |
| trans-1,2-Dichloroethene | 0.42J | 1400 | --- |
| Tetrachloroethene | 42.7 | 1400 | nc |
| Trichloroethene | <0.33 | 70 | nc |
| Vinyl Chloride | <0.15 | 57 | c |

***Notes:***

µg/m$^3$ - micrograms per cubic meter

**Bold** concentrations exceed the applicable Large Commercial/Industrial Standard

Underlined concentrations exceed the applicable Small Commercial Standard

*...* concentrations exceed the Residential Standard

ND - not detected

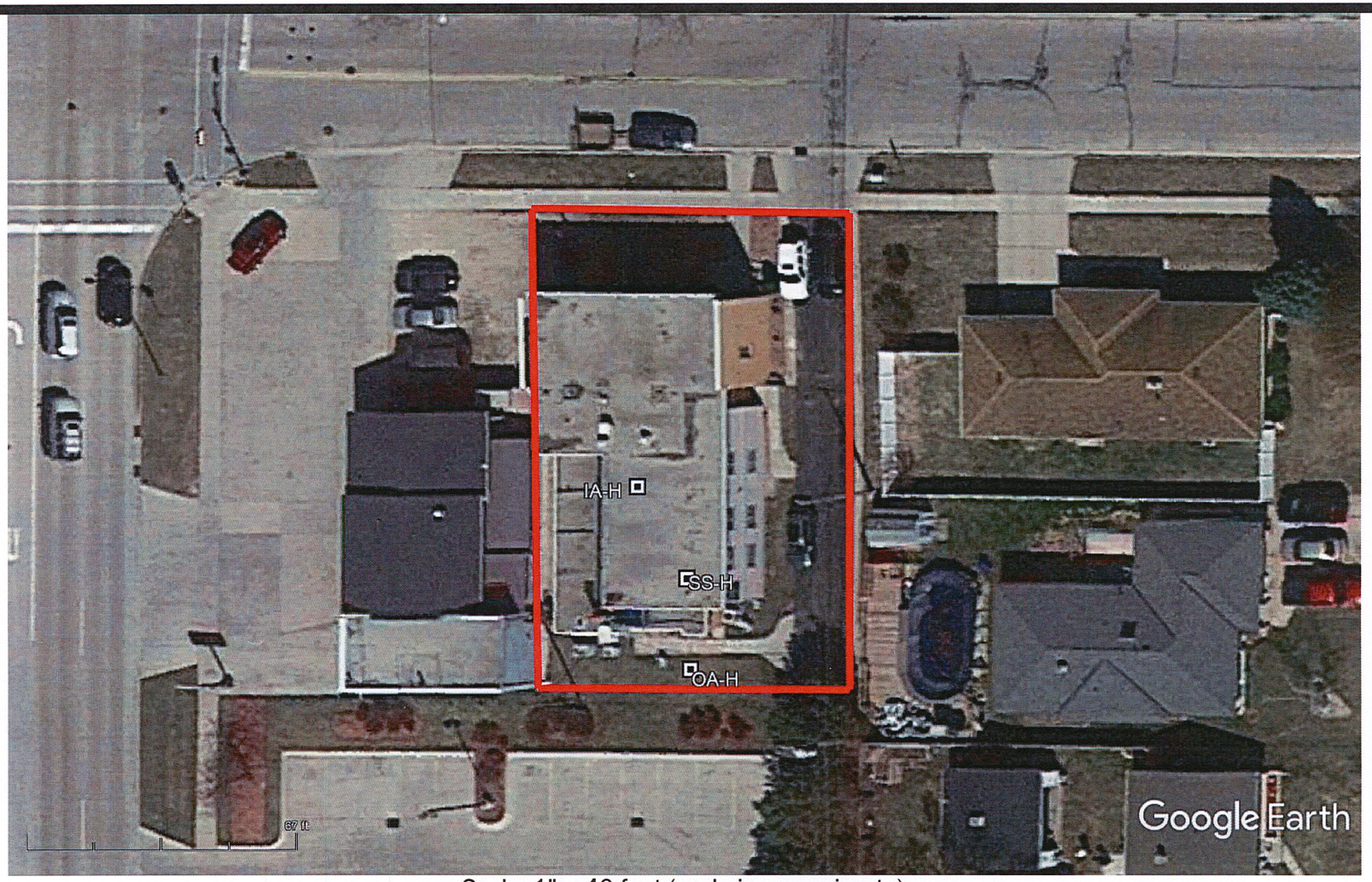
NA - not analyzed

--- - no standard established

N/A - not applicable

Samples were collected by Konicek Environmental Consultants LLC

Action levels obtained and calculated from values referenced in the EPA VISL Calculator and the September 2021 RR-0136 update




Scale: 1" = 40 feet (scale is approximate)

## Legend

- Vapor sample location

**Note: SS-H is sub-slab, IA-H is indoor air, and OA-H is outdoor air.

N
NW
NE
W
E
SW
SE
S

**Konicek Environmental Consulting, LLC**

Created by: AL

Date: 3/29/2022

**Hawthorne Manor Vapor**

C/o: Ol'Tyme Dry Cleaners

BRRTS: 02-67-576350

910 S. Main Street West Bend, WI

Pace Analytical®
www.pacelabs.com

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

March 30, 2022

Aaron Lofberg
Konicek Environmental Consulting
1032 South Spring St
Port Washington, WI 53074

RE: Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

Dear Aaron Lofberg:

Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

# CERTIFICATIONS

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

**Pace Analytical Services, LLC - Minneapolis MN**
1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## SAMPLE SUMMARY

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10601050001** | **SS-H** | Air | 03/16/22 10:42 | 03/17/22 10:30 |
| **10601050002** | **IA-H** | Air | 03/16/22 10:46 | 03/17/22 10:30 |
| **10601050003** | **OA-H** | Air | 03/16/22 10:52 | 03/17/22 10:30 |

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **10601050001** | **SS-H** | TO-15 | MJL | 5 | PASI-M |
| **10601050002** | **IA-H** | TO-15 | HMH | 5 | PASI-M |
| **10601050003** | **OA-H** | TO-15 | AFV | 5 | PASI-M |

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## SUMMARY OF DETECTION

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **10601050001** | **SS-H** | | | | | |
| TO-15 | trans-1,2-Dichloroethene | 0.42J | ug/m3 | 1.4 | 03/25/22 05:55 | |
| TO-15 | Tetrachloroethene | 42.7 | ug/m3 | 1.2 | 03/25/22 05:55 | |
| **10601050003** | **OA-H** | | | | | |
| TO-15 | Tetrachloroethene | 5.5 | ug/m3 | 1.2 | 03/29/22 12:29 | |
| TO-15 | Trichloroethene | 2.2 | ug/m3 | 0.98 | 03/29/22 12:29 | |

Pace Analytical®
www.pacelabs.com

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

# PROJECT NARRATIVE

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

**Method:** **TO-15**
**Description:** TO15 MSV AIR
**Client:** Konicek Environmental KEC
**Date:** March 30, 2022

**General Information:**
3 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

**Sample: SS-H** **Lab ID: 10601050001** Collected: 03/16/22 10:42 Received: 03/17/22 10:30 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **TO15 MSV AIR** | Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | |
| cis-1,2-Dichloroethene | **<0.33** | ug/m3 | 1.4 | 0.33 | 1.68 | | 03/25/22 05:55 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.42J** | ug/m3 | 1.4 | 0.28 | 1.68 | | 03/25/22 05:55 | 156-60-5 | |
| Tetrachloroethene | **42.7** | ug/m3 | 1.2 | 0.49 | 1.68 | | 03/25/22 05:55 | 127-18-4 | |
| Trichloroethene | **<0.33** | ug/m3 | 0.92 | 0.33 | 1.68 | | 03/25/22 05:55 | 79-01-6 | |
| Vinyl chloride | **<0.15** | ug/m3 | 0.87 | 0.15 | 1.68 | | 03/25/22 05:55 | 75-01-4 | |

**Sample: IA-H** **Lab ID: 10601050002** Collected: 03/16/22 10:46 Received: 03/17/22 10:30 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **TO15 MSV AIR** | Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | |
| cis-1,2-Dichloroethene | **<0.34** | ug/m3 | 1.4 | 0.34 | 1.75 | | 03/25/22 15:49 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.29** | ug/m3 | 1.4 | 0.29 | 1.75 | | 03/25/22 15:49 | 156-60-5 | |
| Tetrachloroethene | **<0.51** | ug/m3 | 1.2 | 0.51 | 1.75 | | 03/25/22 15:49 | 127-18-4 | |
| Trichloroethene | **<0.34** | ug/m3 | 0.96 | 0.34 | 1.75 | | 03/25/22 15:49 | 79-01-6 | |
| Vinyl chloride | **<0.15** | ug/m3 | 0.46 | 0.15 | 1.75 | | 03/25/22 15:49 | 75-01-4 | |

**Sample: OA-H** **Lab ID: 10601050003** Collected: 03/16/22 10:52 Received: 03/17/22 10:30 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **TO15 MSV AIR** | Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | |
| cis-1,2-Dichloroethene | **<0.35** | ug/m3 | 1.4 | 0.35 | 1.79 | | 03/29/22 05:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.30** | ug/m3 | 1.4 | 0.30 | 1.79 | | 03/29/22 05:43 | 156-60-5 | |
| Tetrachloroethene | **5.5** | ug/m3 | 1.2 | 0.52 | 1.79 | | 03/29/22 12:29 | 127-18-4 | |
| Trichloroethene | **2.2** | ug/m3 | 0.98 | 0.35 | 1.79 | | 03/29/22 12:29 | 79-01-6 | |
| Vinyl chloride | **<0.16** | ug/m3 | 0.93 | 0.16 | 1.79 | | 03/29/22 05:43 | 75-01-4 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

QC Batch: 805445
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10601050001

METHOD BLANK: 4275391 Matrix: Air
Associated Lab Samples: 10601050001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | <0.098 | 0.40 | 03/24/22 13:47 | |
| Tetrachloroethene | ug/m3 | <0.15 | 0.34 | 03/24/22 13:47 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.084 | 0.40 | 03/24/22 13:47 | |
| Trichloroethene | ug/m3 | <0.098 | 0.27 | 03/24/22 13:47 | |
| Vinyl chloride | ug/m3 | <0.043 | 0.26 | 03/24/22 13:47 | |

LABORATORY CONTROL SAMPLE: 4275392

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | 43.4 | 54.9 | 126 | 70-136 | |
| Tetrachloroethene | ug/m3 | 73.4 | 92.7 | 126 | 70-134 | |
| trans-1,2-Dichloroethene | ug/m3 | 43.6 | 55.5 | 127 | 70-134 | |
| Trichloroethene | ug/m3 | 58.4 | 71.4 | 122 | 70-134 | |
| Vinyl chloride | ug/m3 | 28 | 32.0 | 114 | 70-132 | |

SAMPLE DUPLICATE: 4276218

| Parameter | Units | 10600506003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | ND | <0.33 | | 25 | |
| Tetrachloroethene | ug/m3 | ND | <0.49 | | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | <0.28 | | 25 | |
| Trichloroethene | ug/m3 | ND | <0.33 | | 25 | |
| Vinyl chloride | ug/m3 | ND | <0.15 | | 25 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

QC Batch: 805676
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10601050002

METHOD BLANK: 4276534 Matrix: Air
Associated Lab Samples: 10601050002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | <0.098 | 0.40 | 03/25/22 10:39 | |
| Tetrachloroethene | ug/m3 | <0.15 | 0.34 | 03/25/22 10:39 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.084 | 0.40 | 03/25/22 10:39 | |
| Trichloroethene | ug/m3 | <0.098 | 0.27 | 03/25/22 10:39 | |
| Vinyl chloride | ug/m3 | <0.043 | 0.13 | 03/25/22 10:39 | |

LABORATORY CONTROL SAMPLE: 4276535

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | 43.4 | 43.4 | 100 | 70-136 | |
| Tetrachloroethene | ug/m3 | 73.4 | 75.5 | 103 | 70-134 | |
| trans-1,2-Dichloroethene | ug/m3 | 43.6 | 38.4 | 88 | 70-134 | |
| Trichloroethene | ug/m3 | 58.4 | 58.7 | 100 | 70-134 | |
| Vinyl chloride | ug/m3 | 28 | 26.3 | 94 | 70-132 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

QC Batch: 805691
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10601050003

METHOD BLANK: 4276575 Matrix: Air
Associated Lab Samples: 10601050003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | <0.098 | 0.40 | 03/28/22 11:16 | |
| Tetrachloroethene | ug/m3 | <0.15 | 0.34 | 03/28/22 11:16 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.084 | 0.40 | 03/28/22 11:16 | |
| Trichloroethene | ug/m3 | <0.098 | 0.27 | 03/28/22 11:16 | |
| Vinyl chloride | ug/m3 | <0.043 | 0.26 | 03/28/22 11:16 | MN |

LABORATORY CONTROL SAMPLE: 4276576

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | 43.4 | 49.5 | 114 | 70-136 | |
| Tetrachloroethene | ug/m3 | 73.4 | 79.4 | 108 | 70-134 | |
| trans-1,2-Dichloroethene | ug/m3 | 43.6 | 47.0 | 108 | 70-134 | |
| Trichloroethene | ug/m3 | 58.4 | 63.5 | 109 | 70-134 | |
| Vinyl chloride | ug/m3 | 28 | 32.1 | 115 | 70-132 | |

SAMPLE DUPLICATE: 4279206

| Parameter | Units | 10601255024 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | ND | <0.34 | | 25 | |
| Tetrachloroethene | ug/m3 | 10.6 | 8.9 | 18 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | <0.29 | | 25 | |
| Trichloroethene | ug/m3 | 1.5 | 1.2 | 19 | 25 | |
| Vinyl chloride | ug/m3 | ND | <0.15 | | 25 | |

SAMPLE DUPLICATE: 4279208

| Parameter | Units | 10601050003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/m3 | <0.35 | <0.35 | | 25 | |
| Tetrachloroethene | ug/m3 | 5.5 | 5.5 | 0 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.30 | <0.30 | | 25 | |
| Trichloroethene | ug/m3 | 2.2 | 2.2 | 0 | 25 | |
| Vinyl chloride | ug/m3 | <0.16 | <0.16 | | 25 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| MN | The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule. |

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ol' Tyme Cleaners
Pace Project No.: 10601050

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10601050001** | **SS-H** | TO-15 | 805445 | | |
| **10601050002** | **IA-H** | TO-15 | 805676 | | |
| **10601050003** | **OA-H** | TO-15 | 805691 | | |

Pace Analytical
www.pacelabs.com

# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



**Section A** Required Client Information:

Company: KEC
Address: 1032 S. Spring St. Fort Washington, WI
Email To: aaron@Kaniecenvironmental.com
Phone: (262) 284-2557 Fax:
Requested Due Date/TAT:

**Section B** Required Project Information:

Report To: Aaron Lofberg
Copy To:
Purchase Order No.:
Project Name: Ol' Tyme Cleaners
Project Number:

**Section C** Invoice Information:

Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☑ Other

Location of Sampling by State: _____

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II. X III. ___ IV. ___ Other ___

'Section D Required Client Information

**AIR SAMPLE ID**
Sample IDs MUST BE UNIQUE

Valid Media Codes

| MEDIA | CODE |
|---|---|
| Tedlar Bag | TB |
| 1 Liter Summa Can | 1LC |
| 6 Liter Summa Can | 6LC |
| Low Volume Puff | LVP |
| High Volume Puff | HVP |
| Other | PM10 |

| ITEM # | AIR SAMPLE ID | MEDIA CODE | PID Reading (Client only) | COLLECTED COMPOSITE START END/GRAB DATE | COLLECTED COMPOSITE START END/GRAB TIME | COLLECTED COMPOSITE - DATE | COLLECTED COMPOSITE - TIME | Initial Field reading ( inches of Hg) | Final Field reading ( -inches of Hg) | Summa Can Number | Flow Control Number | Method: PM10 | 3C: Fixed Gas (%) | TO-3 | TO-3M (Methane) | TO-4 (PCBs) | TO-13 (PAH) | TO-14 | TO-15 | TO15 Short List* 6LC | Pace Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SS-H | 6LC | | 3/16/22 | 10:09 | 3/16/22 | 10:42 | 28 | 5 | 12912 | 28 28 | | | | | | | | X | | a01 |
| 2 | IA-H | 6LC | | ↓ | 10:16 | ↓ | 10:46 | 30 | 6 | 36552 | 29 29 | | | | | | | | X | | a02 |
| 3 | OA-H | 6LC | | ↓ | 10:22 | ↓ | 10:52 | 29 | 8 | 38831 | 17 60 | | | | | | | | X | | a03 |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |

**WO#: 10601050**

10601050

Comments:

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|
| Aaron Lofberg | 3/16/22 | | [illegible] PACE | 3.17.22 | 1030 |
| | | | | | |
| | | | | | |

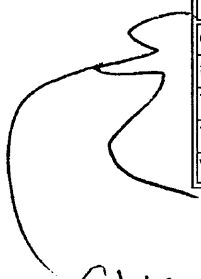
**SAMPLE CONDITIONS**

| | | | | |
|---|---|---|---|---|
| — | Y/N | Y/N | Y/N | Y/N |
| | Y/N | Y/N | Y/N | Y/N |
| | Y/N | Y/N | Y/N | Y/N |
| | Y/N | Y/N | Y/N | Y/N |
| | Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Aaron Lofberg
SIGNATURE of SAMPLER: Aaron Lofberg
DATE Signed (MM / DD / YY): 03/16/22

| | |
|---|---|
| Sample Location: | |
| Sample Identification: | |
| Date: | |
| Units: | |
| cis-1,2-Dichloroethene | |
| trans-1,2-Dichloroethene | |
| Tetrachloroethene | |
| Trichloroethene | |
| Vinyl Chloride | |



CVOC - TO-15
Shortlist

| Pace Analytical® | Document Name: **Sample Condition Upon Receipt (SCUR) - Air** | Document Revised: 13Oct2021 **Page 1 of 1** |
|---|---|---|
| | Document No.: **ENV-FRM-MIN4-0113 Rev.01** | Pace Analytical Services - **Minneapolis** |

**Air Sample Condition Upon Receipt**

**Client Name:** KONICEK ENV.

**Project #:** **WO#: 10601050**

**PM: KNH** **Due Date: 03/24/22**

**CLIENT: Konicek Env.**

**Courier:** ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

**Tracking Number:** 5405 1816 0641 ☐ See Exception

**Custody Seal on Cooler/Box Present?** ☐ Yes ☒ No

**Seals Intact?** ☐ Yes ☒ No

**Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____

**Date & Initials of Person Examining Contents:** 3-17-22 CMy

| | | | | Comments: |
|---|---|---|---|---|
| Chain of Custody Present? | ☒ Yes | ☐ No | | 1. |
| Chain of Custody Filled Out? | ☒ Yes | ☐ No | | 2. |
| Chain of Custody Relinquished? | ☒ Yes | ☐ No | | 3. |
| Sampler Name and/or Signature on COC? | ☒ Yes | ☐ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time? | ☒ Yes | ☐ No | | 5. |
| **Short Hold Time Analysis (<72 hr)?** | ☐ Yes | ☒ No | | 6. |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☒ No | | 7. |
| Sufficient Volume? | ☒ Yes | ☐ No | | 8. |
| Correct Containers Used? **(Tedlar bags not acceptable container for TO-15 or APH)** -Pace Containers Used? | ☒ Yes ☒ Yes | ☐ No ☐ No | | 9. |
| Containers Intact? **(visual inspection/no leaks when pressurized)** | ☒ Yes | ☐ No | | 10. |
| Media: (Air Can) \| Airbag | | | | 11. Individually Certified Cans? Y (N) (list which samples) |
| Is sufficient information available to reconcile samples to the COC? | ☒ Yes | ☐ No | | 12. OA-H CAN # IS WRONG ON THE COC |
| Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)** | ☒ Yes | ☐ No | | 13. |

Gauge #: ☐ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☒ 10AIR17 ☐ 10AIR47 ☐ 10AIR48

| Canisters | | | | | Canisters | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Can ID | Flow Controller | Initial Pressure | Final Pressure | Sample Number | Can ID | Flow Controller | Initial Pressure | Final Pressure |
| SS-H | 1292 | 2828 | -6 | -5 | | | | | |
| IA-H | 3655 | 2929 | -7 | " | | | | | |
| OA-H | 2833 | 1760 | -7.5 | " | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

**Project Manager Review:** Kirsten Hogberg **Date:** 3/17/2022

***Note:*** *Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*