



Robert E. Lee & Associates, Inc.

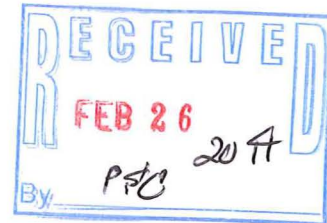
Engineering, Surveying, Environmental Services

Green Bay Office
1250 Centennial Centre Boulevard
Hobart, WI 54155-8995
920-662-9641
FAX 920-662-9141

February 14, 2014

Ms. Danielle Helm
1226A 11th Avenue
Grafton, WI 53024

RE: Indoor Air and Vapor Sampling Results
1228 11th Avenue, Grafton, Wisconsin
WDNR BRRTS #02-46-560212



Dear Ms. Helm:

FID # 246166470

This correspondence is to provide you with the results of the indoor air and sub-slab vapor sampling conducted on January 16, 2014 within the building you occupy located at 1228 11th Avenue, Grafton, Wisconsin. The sampling was conducted by Robert E. Lee & Associates, Inc., (REL) as required by the Wisconsin Department of Natural Resources (WDNR) for the on-going environmental investigation of a historic dry cleaning solvent release identified at former Quality Cleaners (the Site). Initial investigation results indicate that soil and groundwater at the Site are contaminated with dry cleaning solvents. Based on these findings, the responsible party will be taking actions to protect current and future occupants of the building from potentially unhealthy exposures to these contaminants.

The purpose of the sampling was to determine whether dry cleaning related compound vapors from the subsurface contamination are migrating through soil and into the air (atmosphere) in the building. Two 8-hour indoor air samples (IA-1 and IA-2) were collected from within the Site building and two sub-slab vapor samples (SSV-1 and SSV-2) were collected from beneath the building floor via sampling devices installed in the floor. The samples were submitted to Pace Analytical Services, Inc., of Minneapolis, Minnesota for analysis of the following dry cleaning related compounds: cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. A copy of the laboratory report is attached, and the results are summarized in Table 1.

Sub-Slab Vapor Results

Concentrations of dry cleaning related compounds were detected in each of the sub-slab vapor samples collected from beneath the building's floor. Most notably, PCE concentrations are above the Vapor Risk Screening Level established by the WDNR. The WDNR sub-slab Vapor Risk Screening Level for PCE is a health-based risk standard for long-term exposure and is a protective value that serves as a threshold of when sub-slab soil vapor concentrations may start to pose a risk for reaching and affecting indoor air quality.

Indoor Air Results

Concentrations of dry cleaning related compounds were also detected in the indoor air of the building. Most notably, PCE concentrations are above the Vapor Action Level established by the WDNR. The WDNR Vapor Action Level for PCE is a health-based risk standard for long-term exposure and is set at a concentration that is protective of human health and serves as a threshold above which exposure needs to be halted.

Conclusions

Based on the levels of PCE detected in the sub-slab vapor and indoor air samples, the WDNR, Wisconsin Department of Health Services (WDHS), and the Ozaukee County Health Department are working together with the responsible party to protect the building occupants and public from exposures to the dry cleaning related contamination at the Site.

At this time, the WDNR is requiring a vapor mitigation system be installed within the building followed by post-installation sampling to confirm that the system is effective and concentrations of PCE have been reduced to acceptable levels. A vapor mitigation system is a sub-slab depressurization system (similar to a radon mitigation system), which prevents vapor from entering the building from below, thereby reducing contaminant migration into indoor air. The WDNR has communicated this to the responsible party via letter, and you will be contacted in the future with further information regarding the actions relating to the building.

In addition, the WDNR is also requiring testing in other buildings near the Site to determine if there are impacts to off-site properties as well. Once the site investigation activities are complete, the WDNR will require remediation of the contaminated soil and groundwater at the Site to reduce the potential for PCE vapors in the future.

Enclosed are publications provided by the WDNR and WDHS that provide further information on vapor intrusion at properties.

Please feel free to contact Mr. John Feeney of the WDNR (920-893-8523) with any questions or concerns regarding the sampling results or required future actions for the Site. You may also contact Nicole LaPlant of Robert E. Lee & Associates, Inc., (920-662-9641) regarding results of the sampling.

Please contact Ms. Liz Evans of the Wisconsin Department of Health Services at 608-266-3393 or Mr. Dan Ziegler of the Ozaukee County Public Health Department at 262-284-8170 with any questions regarding any health questions related to the PCE concentrations detected in the building.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.



Nicole L. LaPlant
Senior Project Geologist



Bruce D. Meissner, PG
Environmental Services Manager

NLL/BDM/NJM

ENC.

CC/ENC: Mr. Gerald Kuehl
Mr. John Feeney, WDNR
Ms. Liz Evans, WDHS
Mr. Dan Ziegler, Ozaukee County Health Department

**TABLE 1
SUB-SLAB VAPOR AND AIR ANALYTICAL RESULTS SUMMARY
FORMER QUALITY CLEANERS, 1228 11th AVENUE, GRAFTON, WI**

| Sample ID | Sample Location | Sample Type | Date Collected | Relevant VOCs ($\mu\text{g}/\text{m}^3$) | | | | |
|--|--|-------------|----------------|--|-----|-------------|---------------|----------------|
| | | | | PCE | TCE | Cis-1,2 DCE | Trans-1,2 DCE | Vinyl Chloride |
| Non-Residential Sub-Slab Vapor Risk Screening Level (VRSL) -- $\mu\text{g}/\text{m}^3$ | | | | 18,000 | 880 | --- | 26,000 | 2,800 |
| Non-Residential Indoor Air Vapor Action Level (VAL) -- $\mu\text{g}/\text{m}^3$ | | | | 180 | 8.8 | --- | 260 | 28 |
| SSV-1 | Hallway entrance to two tenant spaces, occupied by Hair Vision and private hair stylist. | Sub-slab | 1/16/2014 | 246,000 | 3.3 | ND | ND | ND |
| IA-1 | | Indoor air | 1/16/2014 | 882 | ND | ND | ND | ND |
| SSV-2 | Near the location of the former dry cleaning machine (vicinity of Boring B1) | Sub-slab | 1/16/2014 | 7,000,000 | ND | ND | ND | ND |
| IA-2 | | Indoor air | 1/16/2014 | 865 | ND | ND | ND | ND |
| OA-1 | Southwest of Site building, across 11th Street (upwind) | Outdoor air | 1/16/2014 | 1.5 | ND | ND | ND | ND |

Key:

--- = No screening level established
 ND = Not detected above laboratory detection limits
 $\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter
 PCE = Tetrachloroethene
 TCE = Trichloroethene
 Cis-1,2 DCE = Cis-1,2 Dichloroethene
 Trans-1,2 DCE = Trans-1,2 Dichloroethene

138 = Vapor Risk Screening Level (VRSL) exceeded

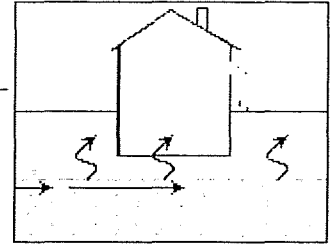
14.5 = Vapor Action Level (VAL) exceeded

Notes:

- 1.) Sub-slab samples collected using Vapor Pin.
- 2.) The Vapor Risk Screening Level (VRSL) was calculated by multiplying the VAL by a dilution factor of 100 for commercial buildings, in accordance with WDNR guidance.



VAPOR INTRUSION



What is vapor intrusion?

Vapor intrusion is a way that chemicals in soil or groundwater can get into indoor air. (see figure at right) Sometimes, chemicals are spilled on the ground at a factory or leak from an underground storage tank. These chemicals can seep down into the soil and groundwater. Some chemicals can also travel through soil as vapors. These vapors may then move up through the soil and into nearby buildings, contaminating indoor air. Homes in the same neighborhood and right next to each other can be affected differently by vapor intrusion. Vapor intrusion is similar to how radon, a naturally occurring radioactive gas, can enter a home through cracks in the foundation. Vapor intrusion is uncommon, but should be considered whenever there is a known source of soil or groundwater contamination nearby.

What chemicals might be entering my home, and where would they come from?

VOCs (volatile organic compounds) are one group of chemicals that easily become gases which can migrate through the soil and enter buildings. Some examples of VOCs are petroleum products such as gasoline or diesel fuel, and solvents for dry cleaning and industrial uses.

The most common vapor intrusion cases involve petroleum spilled or leaked from underground storage tanks at gas stations. These cases are usually accompanied by a petroleum odor. Solvents from other commercial sites and industrial sites are usually not accompanied by an odor. In many cases, chemical and petroleum releases are not immediately discovered. By the time they are discovered, the contamination has had time to migrate through the soil.

Some of these same solvents are also found in household products which may be stored in your home. Paints, paint strippers and thinners, cigarette smoke, aerosol sprays, moth balls, air fresheners, new carpeting or furniture, hobby supplies (glues and solvents), stored fuels, and dry-cleaned clothing all contain VOCs. For this reason, **household products are more likely to be a source of indoor air quality problems at your home than vapor intrusion from a contamination site.** In some extreme cases, health symptoms can be experienced as a result of exposure to chemicals stored in the home.

What are the health concerns with vapor intrusion?

The health effects from chemical exposures vary based on the individual exposed and the chemical involved. When chemicals build up in indoor air (at levels high enough to cause a strong petroleum odor, for example), some people will experience eye and respiratory irritation, headache, and/or nausea. These symptoms are temporary and should go away when the person is moved to fresh air. Usually, health officials are most concerned about low level chemical exposures over many years, as this may raise a person's lifetime risk for developing cancer.

The likelihood of indoor air contamination by vapor intrusion is low at most cleanup sites. When vapor intrusion does occur, the health risk will often be lower than that posed by radon or by chemicals owned and used by the resident. Even though the risk is quite low, the Wisconsin Department of Health Services (DHS) considers these risks to be unnecessary and avoidable.

What should I expect if vapor intrusion is a concern near my home?

If you live near a site with VOC contamination, such as a gas station or dry cleaner where petroleum or chemicals have contaminated soil or groundwater, you should expect that the potential for vapor intrusion is also being investigated. You may be contacted by the cleanup site owner or others working on the cleanup with information about the project. Your cooperation and consent would be requested before any testing/sampling would be done on your property. You may ask the person contacting you any questions about the work being

done, or you can contact the DNR cleanup project manager, or a DHS employee. Telephone numbers and internet addresses for DHS and DNR are provided below.

How is vapor intrusion investigated?

In most cases, the potential for vapor intrusion can be ruled out by collecting soil gas or groundwater samples near the contamination site. In some cases, sampling closer to your property and/or home may be necessary. DHS and DNR do not usually recommend indoor air sampling for vapor intrusion. Indoor air quality changes a lot from day to day. Therefore, sampling one day may not show a problem even though sampling a day later might show contamination. Since a variety of VOC sources are present in most homes, testing will not necessarily confirm that VOCs in the indoor air are from VOC contamination in soils nearby. Instead, soil vapor samples are taken from areas outside of the home to see if vapors are near the home. Samples may also be taken from beneath the home's foundation (called sub-slab samples), to see if vapors have reached the home. Sub-slab samples are more reliable than indoor air samples and are not as affected by other indoor chemical sources. If no odors are present at a petroleum cleanup site, additional testing may not be necessary as long as the site is being cleaned up effectively.

What happens if a problem is found?

If vapor intrusion is having an effect on the air in your home, the most common solution is to install a *radon mitigation system*. This prevents gases in the soil from entering the home. A low amount of suction is applied below the foundation and the vapors are vented to the outside. The system uses minimal electricity and should not noticeably affect heating and cooling efficiency. This mitigation system also prevents radon from entering the home, an added health benefit. Usually, the party responsible for cleaning up the contamination is also responsible for paying for the installation of this system. Once the contamination is cleaned up, the system should no longer be needed. In homes with radon problems, DHS suggests that these systems remain in place permanently.

What else can I do to improve my air quality?

There are other sources of indoor air problems. Consider these tips to improve air quality:

- Do not buy more chemicals than you need at a time. Be aware of what products contain VOCs.
- Store unused chemicals in appropriate containers in a well-ventilated location.
- If you smell a chemical odor that does not seem to be from an indoor source, contact your local health department. For very strong odors, your local fire department can determine if there is a fire hazard.
- Don't make your home too air tight. Fresh air will help prevent both buildup of chemicals in the air and mold growth.
- Fix all leaks promptly, as well as other moisture problems that encourage mold growth.
- Make sure all major appliances and fireplaces are in good condition. Have them checked annually by a professional.
- TEST YOUR HOME FOR RADON! (www.lowradon.org)

For more information

For health related questions, contact your local health department or DHS at (608) 266-1120. More information on this and related topics is available on the DHS website: www.dhs.wi.gov/eh/air. For an on-line DNR database of sites with environmental contamination, follow the "BRRTS on the Web" button from the Remediation and Redevelopment page: dnr.wi.gov/topic/brownfields/botw.html.

Who Should I Contact About Vapor Intrusion Investigations?

RR-934

April 2013

The Department of Natural Resources (DNR) Remediation and Redevelopment (RR) program oversees the investigation and cleanup for all environmental contaminant pathways, including vapor intrusion. Both DNR and the Wisconsin Department of Health Services/Division of Public Health (DHS/DPH) and local health departments have the responsibility for ensuring that human health is protected at contaminated sites for both residential and non-residential properties. To avoid duplication of effort and to be effective and efficient in assessing risk to human health at contaminated sites with vapor intrusion issues, we recommend that the following criteria be used for determining when to involve DHS/DPH in vapor intrusion cases:

DNR Responsibility

- Provide answers to questions relating to site investigation, mitigation, remediation, follow-up monitoring, closure decisions, etc. Examples include:
 - collecting sub-slab, soil vapor or indoor air samples;
 - vapor intrusion sampling techniques;
 - sampling & analysis methodology and frequency;
 - developing a conceptual site model;
 - where to collect samples;
 - post-mitigation monitoring for sub-slab & indoor air; and
 - assessing & interpreting soil, sub-slab and indoor air vapor results.
- Work with DHS/DPH staff in all situations where people may be exposed to contaminants of concern.

Health Agency Responsibility

- Provide support when indoor air concentrations exceed Action Level(s) of contaminants. An Action Level is equal either of the following: a hazard index (HI) of 1.0 or a 1-in-100,000 excess lifetime cancer risk. DHS/DPH should be consulted to ensure that the indoor air risk is mitigated and building occupants are protected.
- Provide support to interpret and communicate indoor air results.
- When needed, help with gaining access to homes or businesses to collect sub-slab or indoor air samples to:
 - communicate risk from chemical exposures,
 - explain why samples need to be collected, and
 - address health concerns or questions.

There are overlapping responsibilities between DHS/DPH and DNR regarding indoor air risks at vapor intrusion sites. The goal is to involve DHS/DPH and local health departments in site investigation decisions when a risk to human health may exist. This allows DHS/DPH more time for collaboration with city and county health departments, which are the lead public health authorities throughout Wisconsin.

Questions? Contact Terry Evanson at DNR: 608-266-0941, Theresa.Evanson@wisconsin.gov or Liz Evans at DHS/DPH: 608-266-3393, Elizabeth.Evans@dhs.wisconsin.gov

This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240.

This publication is available in alternative format upon request. Please call 608-267-3543 for more information.



Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "brownfield"



February 03, 2014

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5446-001 Former Quality Cleane

Pace Project No.: 10255522

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322

Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10255522001 | SSV-1 | Air | 01/16/14 16:04 | 01/21/14 13:10 |
| 10255522002 | SSV-2 | Air | 01/16/14 16:22 | 01/21/14 13:10 |

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SAMPLE ANALYTE COUNT

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 10255522001 | SSV-1 | TO-15 | AH2 | 5 |
| 10255522002 | SSV-2 | TO-15 | AH2 | 5 |

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ANALYTICAL RESULTS

Project: 5446-001 Former Quality Cleane

Pace Project No.: 10255522

| Sample: SSV-1 | | Lab ID: 10255522001 | Collected: 01/16/14 16:04 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 02/01/14 05:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 02/01/14 05:10 | 156-60-5 | |
| Tetrachloroethene | 246000 | ug/m3 | 1270 | 1843.2 | | 02/01/14 18:34 | 127-18-4 | A3 |
| Trichloroethene | 3.3 | ug/m3 | 0.79 | 1.44 | | 02/01/14 05:10 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 1.44 | | 02/01/14 05:10 | 75-01-4 | |

| Sample: SSV-2 | | Lab ID: 10255522002 | Collected: 01/16/14 16:22 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 6180 | 7628.8 | | 02/01/14 13:11 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 6180 | 7628.8 | | 02/01/14 13:11 | 156-60-5 | |
| Tetrachloroethene | 7000000 | ug/m3 | 5260 | 7628.8 | | 02/01/14 13:11 | 127-18-4 | E |
| Trichloroethene | ND | ug/m3 | 4200 | 7628.8 | | 02/01/14 13:11 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 1980 | 7628.8 | | 02/01/14 13:11 | 75-01-4 | |

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QUALITY CONTROL DATA

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

QC Batch: AIR/19326 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255522001, 10255522002

METHOD BLANK: 1618172 Matrix: Air
Associated Lab Samples: 10255522001, 10255522002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Tetrachloroethene | ug/m3 | ND | 0.69 | 01/31/14 16:03 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 01/31/14 16:03 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 01/31/14 16:03 | |

LABORATORY CONTROL SAMPLE: 1618173

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 48.6 | 121 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 83.1 | 120 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 45.6 | 113 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 66.8 | 122 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 29.3 | 113 | 69-132 | |

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QUALIFIERS

Project: 5446-001 Former Quality Clean
Pace Project No.: 10255522

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

SAMPLE QUALIFIERS

Sample: 10255522002

[1] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5446-001 Former Quality Clean
Pace Project No.: 10255522

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|-----------|-------------------|------------------|
| 10255522001 | SSV-1 | TO-15 | AIR/19326 | | |
| 10255522002 | SSV-2 | TO-15 | AIR/19326 | | |

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

1025522

18376

Page: 1 of 1

| | | | |
|--|---|--|--|
| Section A Required Client Information: | Section B Required Project Information: | Section C Invoice Information: | |
| Company: <u>Robert E. Lee & Associates</u> | Report To: <u>Nicole LaPlant</u> | Attention: <u>Nicole LaPlant</u> | Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other Location of Sampling by State <u>WI</u> Reporting Units <input checked="" type="checkbox"/> ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other Report Level II. ___ III. ___ IV. ___ Other ___ |
| Address: <u>1250 Centennial Centre Blvd</u> | Copy To: | Company Name: <u>Robert E. Lee & Associates, Inc</u> | |
| <u>Hobart, WI 54155</u> | | Address: <u>1250 Centennial Centre Blvd</u> | |
| Email To: <u>n.la.plant@releeinc.com</u> | Purchase Order No.: | Pace Quote Reference: | |
| Phone: <u>920-662-9291</u> Fax: | Project Name: <u>Former Quality Cleaners</u> | Pace Project Manager/Sales Rep. <u>Carolanne Trust</u> | |
| Requested Due Date/TAT: | Project Number: <u>5446-001</u> | Pace Profile #: | |

| ITEM # | 'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE | Valid Media Codes MEDIA CODE | PID Reading (Client only) | COLLECTED | | | | Canister Pressure (Initial Field - psig) | Canister Pressure (Final Field - psig) | Summa Can Number | Flow Control Number | Method: | | | | | | | | Pace Lab ID |
|--------|---|---------------------------------|---------------------------|-----------------------------|------|-----------|------|--|--|------------------|---------------------|---------|-------------------|------|-----------------|--------------|-------------|-------|-------------------|-------------|
| | | | | COMPOSITE START END/GRAB | | COMPOSITE | | | | | | PM10 | 3C- Fixed Gas (%) | TO-3 | TO-9M (Methane) | TO-14 (PCBs) | TO-15 (PAH) | TO-15 | TO-15 Short List* | |
| | | | | DATE | TIME | DATE | TIME | | | | | | | | | | | | | |
| 1 | SSU-1 | GC | | 1-16-14 | 1523 | 1-16-14 | 1604 | -30 | -3 | X562 | X0948 | | | | | | | X | 001 | |
| 2 | SSU-2 | GC | | 1-16-14 | 1548 | 1-16-14 | 1622 | -28 | -4 | Xx23 | X0935 | | | | | | | X | 002 | |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |

Comments:

5 compounds only
 -PCE, TCE, cis-DCE
 trans-DCE, VC

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|-------------------------------|---------|-------|---------------------------|---------|-------|-------------------|-----|-----|-----|
| <u>[Signature]</u> | 1-16-14 | 20:00 | <u>[Signature]</u> | 1-21-14 | 13:10 | HAB | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N |

SAMPLER NAME AND SIGNATURE



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.09

Document Revision: 20080513
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:

Robert E. Lee

Project #:

WO#: 10255522



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: *3753 4197 5180*

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 72387080

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: *CEP 1/21/14*

Type of ice Received Blue Wet None

Comments:

| | | |
|---------------------------------------|--|-----|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name and/or Signature on COC? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Media: <i>AC</i> | | 11. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |

| Canisters | | Flow Controllers | | Stand Alone G | |
|---------------|-------------|------------------|--------|---------------|--------|
| Sample Number | Can ID | Sample Number | Can ID | Sample Number | Can ID |
| <i>SSV-1</i> | <i>0562</i> | <i>0948</i> | | | |
| <i>SSV-2</i> | <i>0023</i> | <i>0935</i> | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *CEP*

Date: *1/22/14*

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)

February 03, 2014

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

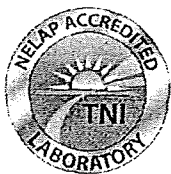
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322

Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10255520001 | IA-1 | Air | 01/16/14 15:12 | 01/21/14 13:10 |
| 10255520002 | IA-2 | Air | 01/16/14 15:15 | 01/21/14 13:10 |
| 10255520003 | OA-1 | Air | 01/16/14 15:18 | 01/21/14 13:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 10255520001 | IA-1 | TO-15 | DR1 | 5 |
| 10255520002 | IA-2 | TO-15 | AH2 | 5 |
| 10255520003 | OA-1 | TO-15 | DR1 | 5 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5446-001 Former Quailty Cleane

Pace Project No.: 10255520

| Sample: IA-1 | | Lab ID: 10255520001 | Collected: 01/16/14 15:12 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 1.61 | | 01/31/14 00:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 1.61 | | 01/31/14 00:20 | 156-60-5 | |
| Tetrachloroethene | 882 | ug/m3 | 22.2 | 32.2 | | 01/31/14 16:06 | 127-18-4 | |
| Trichloroethene | ND | ug/m3 | 0.89 | 1.61 | | 01/31/14 00:20 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.42 | 1.61 | | 01/31/14 00:20 | 75-01-4 | |

| Sample: IA-2 | | Lab ID: 10255520002 | Collected: 01/16/14 15:15 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 25.1 | 31 | | 02/01/14 03:38 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 25.1 | 31 | | 02/01/14 03:38 | 156-60-5 | |
| Tetrachloroethene | 865 | ug/m3 | 21.4 | 31 | | 02/01/14 03:38 | 127-18-4 | |
| Trichloroethene | ND | ug/m3 | 17.0 | 31 | | 02/01/14 03:38 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 8.1 | 31 | | 02/01/14 03:38 | 75-01-4 | |

| Sample: OA-1 | | Lab ID: 10255520003 | Collected: 01/16/14 15:18 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 1.55 | | 01/30/14 23:18 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 1.55 | | 01/30/14 23:18 | 156-60-5 | |
| Tetrachloroethene | 1.5 | ug/m3 | 1.1 | 1.55 | | 01/30/14 23:18 | 127-18-4 | |
| Trichloroethene | ND | ug/m3 | 0.85 | 1.55 | | 01/31/14 15:40 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.40 | 1.55 | | 01/30/14 23:18 | 75-01-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255520

QC Batch: AIR/19314 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255520001, 10255520003

METHOD BLANK: 1617456 Matrix: Air
Associated Lab Samples: 10255520001, 10255520003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/30/14 12:33 | |
| Tetrachloroethene | ug/m3 | ND | 0.69 | 01/30/14 12:33 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/30/14 12:33 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 01/30/14 12:33 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 01/30/14 12:33 | |

LABORATORY CONTROL SAMPLE: 1617457

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 39.0 | 97 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 80.0 | 116 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 37.1 | 92 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 52.5 | 96 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 24.4 | 94 | 69-132 | |

SAMPLE DUPLICATE: 1617845

| Parameter | Units | 10255499001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------|-------|--------------------|------------|-----|---------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| Tetrachloroethene | ug/m3 | ND | ND | | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| Trichloroethene | ug/m3 | 30.0 | 30.0 | .2 | 25 | |
| Vinyl chloride | ug/m3 | ND | ND | | 25 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

QC Batch: AIR/19326 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255520002

METHOD BLANK: 1618172 Matrix: Air
Associated Lab Samples: 10255520002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Tetrachloroethene | ug/m3 | ND | 0.69 | 01/31/14 16:03 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 01/31/14 16:03 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 01/31/14 16:03 | |

LABORATORY CONTROL SAMPLE: 1618173

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 48.6 | 121 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 83.1 | 120 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 45.6 | 113 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 66.8 | 122 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 29.3 | 113 | 69-132 | |

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|-----------|-------------------|------------------|
| 10255520001 | IA-1 | TO-15 | AIR/19314 | | |
| 10255520002 | IA-2 | TO-15 | AIR/19326 | | |
| 10255520003 | OA-1 | TO-15 | AIR/19314 | | |

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

1025520

18376

Page: 1 of 1

| | | | |
|--|---|--|---|
| Section A Required Client Information: | Section B Required Project Information: | Section C Invoice Information: | Program |
| Company: <u>Robert E. Lee & Associates</u> | Report To: <u>Nicole LaPlant</u> | Attention: <u>Nicole LaPlant</u> | <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other |
| Address: <u>1250 Centennial Centre Blvd Hobart, WI 54155</u> | Copy To: | Company Name: <u>Robert E. Lee & Associates, Inc</u> | |
| Email To: <u>n.laplant@releeinc.com</u> | Purchase Order No.: | Address: <u>1250 Centennial Centre Blvd</u> | Location of Sampling by State: <u>WI</u> |
| Phone: <u>920-662-9649</u> Fax: | Project Name: <u>Former Quality Cleaners</u> | Pace Quote Reference: | Reporting Units: <input checked="" type="checkbox"/> ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other |
| Requested Due Date/TAT: | Project Number: <u>5446-001</u> | Pace Project Manager/Sales Rep: <u>Carolanne Trust</u> | Report Level: <u>II</u> , <u>III</u> , <u>IV</u> , Other |
| | | Pace Profile #: | |

| ITEM # | 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 | MEDIA CODE | PID Reading (Client only) | COLLECTED | | | | Canister Pressure (Initial Field - psig) | Canister Pressure (Final Field - psig) | Summa Can Number | Flow Control Number | Method: | | | | | | | | Pace Lab ID | | |
|--------|--|---|------------|---------------------------|-----------------------------|------|-----------|------|--|--|------------------|---------------------|---------|-------------------|------|-----------------|-------------|-------------|-------|-------|-------------|-------------------|-----|
| | | | | | COMPOSITE START END/GRAB | | COMPOSITE | | | | | | PM10 | 3C- Fixed Gas (%) | TO-3 | TO-3M (Methane) | TO-4 (PCBs) | TO-13 (PAH) | TO-14 | TO-15 | | TO-15 Short List* | |
| | | | | | DATE | TIME | DATE | TIME | | | | | | | | | | | | | | | |
| 1 | IA-1 | | 6LC | | 1-16-14 | 0801 | 1-16-14 | 1512 | -29 | -4 | X 682 | X 0256 | | | | | | | | X | 601 | | |
| 2 | IA-2 | | 6LC | | 1-16-14 | 0806 | 1-16-14 | 1515 | -30 | -4 | X 636 | X 0367 | | | | | | | | | X | 602 | |
| 3 | OA-1 | | 6LC | | 1-16-14 | 0834 | 1-16-14 | 1518 | -30 | -4.5 | X 798 | X 0224 | | | | | | | | | | X | 603 |

Comments :

5 compounds only
 -PCE, TCE, cis-DCE
 trans-DCE, VC

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | | | | | |
|-------------------------------|---------|------|---------------------------|---------|-------|-------------------|-----------------|-----------------------|----------------|-----|-----|-----|-----|
| <u>[Signature]</u> | 1-16-14 | 2000 | <u>[Signature]</u> | 1-21-14 | 13:10 | Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact | Y/N | Y/N | Y/N | Y/N |
| | | | | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Dan E. Eckhardt
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 1-16-14

ORIGINAL



Air Sample Condition Upon Receipt

Client Name: Roder E Lee
Project #: _____

WO# : 10255520

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: 5753 4197 5161

Custody Seal on Cooler/Box Present? Yes No
Seals Intact? Yes No
Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____
Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
Temp should be above freezing to 6°C Correction Factor: _____
Date & Initials of Person Examining Contents: CR 12-1-14

Type of ice Received Blue Wet None

Comments:

| | | |
|---------------------------------------|--|-----|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name and/or Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Media: <u>AW</u> | | 11. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |

Samples Received: 3 Air Can, 3 Flow Controllers

| Canisters | | Flow Controllers | | Stand Alone G | |
|---------------|------------|------------------|--------|---------------|--------|
| Sample Number | Can ID | Sample Number | Can ID | Sample Number | Can ID |
| <u>IA-1</u> | <u>682</u> | <u>0256</u> | | | |
| <u>IA-2</u> | <u>636</u> | <u>0367</u> | | | |
| <u>OA-1</u> | <u>798</u> | <u>0224</u> | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: [Signature] Date: 1/22/14
 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)



Robert E. Lee & Associates, Inc.

Engineering, Surveying, Environmental Services

Green Bay Office
1250 Centennial Centre Boulevard
Hobart, WI 54155-8995
920-662-9641
FAX 920-662-9141

February 14, 2014

Ms. Bonnie Barkley
HAIR VISION
1226B 11th Avenue
Grafton, WI 53024

RE: Indoor Air and Vapor Sampling Results for 1228 11th Avenue, Grafton, Wisconsin; WDNR
BRRTS #02-46-560212

Dear Ms. Barkley:

FID # 246166470

This correspondence is to provide you with the results of the indoor air and sub-slab vapor sampling conducted on January 16, 2014 within the building you occupy located at 1228 11th Avenue, Grafton, Wisconsin. The sampling was conducted by Robert E. Lee & Associates, Inc., (REL) as required by the Wisconsin Department of Natural Resources (WDNR) for the on-going environmental investigation of a historic dry cleaning solvent release identified at former Quality Cleaners (the Site). Initial investigation results indicate that soil and groundwater at the Site are contaminated with dry cleaning solvents. Based on these findings, the responsible party will be taking actions to protect current and future occupants of the building from potentially unhealthy exposures to these contaminants.

The purpose of the sampling was to determine whether dry cleaning related compound vapors from the subsurface contamination are migrating through soil and into the air (atmosphere) in the building. Two 8-hour indoor air samples (IA-1 and IA-2) were collected from within the Site building and two sub-slab vapor samples (SSV-1 and SSV-2) were collected from beneath the building floor via sampling devices installed in the floor. The samples were submitted to Pace Analytical Services, Inc., of Minneapolis, Minnesota for analysis of the following dry cleaning related compounds: cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. A copy of the laboratory report is attached, and the results are summarized in Table 1.

Sub-Slab Vapor Results

Concentrations of dry cleaning related compounds were detected in each of the sub-slab vapor samples collected from beneath the building's floor. Most notably, PCE concentrations are above the Vapor Risk Screening Level established by the WDNR. The WDNR sub-slab Vapor Risk Screening Level for PCE is a health-based risk standard for long-term exposure and is a protective value that serves as a threshold of when sub-slab soil vapor concentrations may start to pose a risk for reaching and affecting indoor air quality.

Indoor Air Results

Concentrations of dry cleaning related compounds were also detected in the indoor air of the building. Most notably, PCE concentrations are above the Vapor Action Level established by the WDNR. The WDNR Vapor Action Level for PCE is a health-based risk standard for long-term exposure and is set at a concentration that is protective of human health and serves as a threshold above which exposure needs to be halted.

Conclusions

Based on the levels of PCE detected in the sub-slab vapor and indoor air samples, the WDNR, Wisconsin Department of Health Services (WDHS), and the Ozaukee County Health Department are working together with the responsible party to protect the building occupants and public from exposures to the dry cleaning related contamination at the Site.

At this time, the WDNR is requiring a vapor mitigation system be installed within the building followed by post-installation sampling to confirm that the system is effective and concentrations of PCE have been reduced to acceptable levels. A vapor mitigation system is a sub-slab depressurization system (similar to a radon mitigation system), which prevents vapor from entering the building from below, thereby reducing contaminant migration into indoor air. The WDNR has communicated this to the responsible party via letter, and you will be contacted in the future with further information regarding the actions relating to the building.

In addition, the WDNR is also requiring testing in other buildings near the Site to determine if there are impacts to off-site properties as well. Once the site investigation activities are complete, the WDNR will require remediation of the contaminated soil and groundwater at the Site to reduce the potential for PCE vapors in the future.

Enclosed are publications provided by the WDNR and WDHS that provide further information on vapor intrusion at properties.

Please feel free to contact Mr. John Feeney of the WDNR (920-893-8523) with any questions or concerns regarding the sampling results or required future actions for the Site. You may also contact Nicole LaPlant of Robert E. Lee & Associates, Inc., (920-662-9641) regarding results of the sampling.

Please contact Ms. Liz Evans of the Wisconsin Department of Health Services at 608-266-3393 or Mr. Dan Ziegler of the Ozaukee County Public Health Department at 262-284-8170 with any questions regarding any health questions related to the PCE concentrations detected in the building.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.



Nicole L. LaPlant
Senior Project Geologist



Bruce D. Meissner, PG
Environmental Services Manager

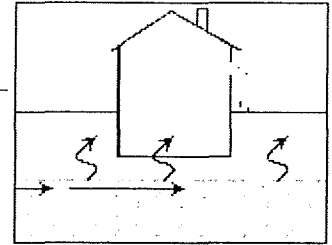
NLL/BDM/NJM

ENC.

CC/ENC: Mr. Gerald Kuehl
Mr. John Feeney, WDNR
Ms. Liz Evans, WDHS
Mr. Dan Ziegler, Ozaukee County Health Department



VAPOR INTRUSION



What is vapor intrusion?

Vapor intrusion is a way that chemicals in soil or groundwater can get into indoor air. (see figure at right) Sometimes, chemicals are spilled on the ground at a factory or leak from an underground storage tank. These chemicals can seep down into the soil and groundwater. Some chemicals can also travel through soil as vapors. These vapors may then move up through the soil and into nearby buildings, contaminating indoor air. Homes in the same neighborhood and right next to each other can be affected differently by vapor intrusion. Vapor intrusion is similar to how radon, a naturally occurring radioactive gas, can enter a home through cracks in the foundation. Vapor intrusion is uncommon, but should be considered whenever there is a known source of soil or groundwater contamination nearby.

What chemicals might be entering my home, and where would they come from?

VOCs (volatile organic compounds) are one group of chemicals that easily become gases which can migrate through the soil and enter buildings. Some examples of VOCs are petroleum products such as gasoline or diesel fuel, and solvents for dry cleaning and industrial uses.

The most common vapor intrusion cases involve petroleum spilled or leaked from underground storage tanks at gas stations. These cases are usually accompanied by a petroleum odor. Solvents from other commercial sites and industrial sites are usually not accompanied by an odor. In many cases, chemical and petroleum releases are not immediately discovered. By the time they are discovered, the contamination has had time to migrate through the soil.

Some of these same solvents are also found in household products which may be stored in your home. Paints, paint strippers and thinners, cigarette smoke, aerosol sprays, moth balls, air fresheners, new carpeting or furniture, hobby supplies (glues and solvents), stored fuels, and dry-cleaned clothing all contain VOCs. For this reason, **household products are more likely to be a source of indoor air quality problems at your home than vapor intrusion from a contamination site.** In some extreme cases, health symptoms can be experienced as a result of exposure to chemicals stored in the home.

What are the health concerns with vapor intrusion?

The health effects from chemical exposures vary based on the individual exposed and the chemical involved. When chemicals build up in indoor air (at levels high enough to cause a strong petroleum odor, for example), some people will experience eye and respiratory irritation, headache, and/or nausea. These symptoms are temporary and should go away when the person is moved to fresh air. Usually, health officials are most concerned about low level chemical exposures over many years, as this may raise a person's lifetime risk for developing cancer.

The likelihood of indoor air contamination by vapor intrusion is low at most cleanup sites. When vapor intrusion does occur, the health risk will often be lower than that posed by radon or by chemicals owned and used by the resident. Even though the risk is quite low, the Wisconsin Department of Health Services (DHS) considers these risks to be unnecessary and avoidable.

What should I expect if vapor intrusion is a concern near my home?

If you live near a site with VOC contamination, such as a gas station or dry cleaner where petroleum or chemicals have contaminated soil or groundwater, you should expect that the potential for vapor intrusion is also being investigated. You may be contacted by the cleanup site owner or others working on the cleanup with information about the project. Your cooperation and consent would be requested before any testing/sampling would be done on your property. You may ask the person contacting you any questions about the work being

done, or you can contact the DNR cleanup project manager, or a DHS employee. Telephone numbers and internet addresses for DHS and DNR are provided below.

How is vapor intrusion investigated?

In most cases, the potential for vapor intrusion can be ruled out by collecting soil gas or groundwater samples near the contamination site. In some cases, sampling closer to your property and/or home may be necessary. DHS and DNR do not usually recommend indoor air sampling for vapor intrusion. Indoor air quality changes a lot from day to day. Therefore, sampling one day may not show a problem even though sampling a day later might show contamination. Since a variety of VOC sources are present in most homes, testing will not necessarily confirm that VOCs in the indoor air are from VOC contamination in soils nearby. Instead, soil vapor samples are taken from areas outside of the home to see if vapors are near the home. Samples may also be taken from beneath the home's foundation (called sub-slab samples), to see if vapors have reached the home. Sub-slab samples are more reliable than indoor air samples and are not as affected by other indoor chemical sources. If no odors are present at a petroleum cleanup site, additional testing may not be necessary as long as the site is being cleaned up effectively.

What happens if a problem is found?

If vapor intrusion is having an effect on the air in your home, the most common solution is to install a *radon mitigation system*. This prevents gases in the soil from entering the home. A low amount of suction is applied below the foundation and the vapors are vented to the outside. The system uses minimal electricity and should not noticeably affect heating and cooling efficiency. This mitigation system also prevents radon from entering the home, an added health benefit. Usually, the party responsible for cleaning up the contamination is also responsible for paying for the installation of this system. Once the contamination is cleaned up, the system should no longer be needed. In homes with radon problems, DHS suggests that these systems remain in place permanently.

What else can I do to improve my air quality?

There are other sources of indoor air problems. Consider these tips to improve air quality:

- Do not buy more chemicals than you need at a time. Be aware of what products contain VOCs.
- Store unused chemicals in appropriate containers in a well-ventilated location.
- If you smell a chemical odor that does not seem to be from an indoor source, contact your local health department. For very strong odors, your local fire department can determine if there is a fire hazard.
- Don't make your home too air tight. Fresh air will help prevent both buildup of chemicals in the air and mold growth.
- Fix all leaks promptly, as well as other moisture problems that encourage mold growth.
- Make sure all major appliances and fireplaces are in good condition. Have them checked annually by a professional.
- TEST YOUR HOME FOR RADON! (www.lowradon.org)

For more information

For health related questions, contact your local health department or DHS at (608) 266-1120. More information on this and related topics is available on the DHS website: www.dhs.wi.gov/eh/air. For an on-line DNR database of sites with environmental contamination, follow the "BRRTS on the Web" button from the Remediation and Redevelopment page: dnr.wi.gov/topic/brownfields/botw.html.

Who Should I Contact About Vapor Intrusion Investigations?

RR-934

April 2013

The Department of Natural Resources (DNR) Remediation and Redevelopment (RR) program oversees the investigation and cleanup for all environmental contaminant pathways, including vapor intrusion. Both DNR and the Wisconsin Department of Health Services/Division of Public Health (DHS/DPH) and local health departments have the responsibility for ensuring that human health is protected at contaminated sites for both residential and non-residential properties. To avoid duplication of effort and to be effective and efficient in assessing risk to human health at contaminated sites with vapor intrusion issues, we recommend that the following criteria be used for determining when to involve DHS/DPH in vapor intrusion cases:

DNR Responsibility

- Provide answers to questions relating to site investigation, mitigation, remediation, follow-up monitoring, closure decisions, etc. Examples include:
 - collecting sub-slab, soil vapor or indoor air samples;
 - vapor intrusion sampling techniques;
 - sampling & analysis methodology and frequency;
 - developing a conceptual site model;
 - where to collect samples;
 - post-mitigation monitoring for sub-slab & indoor air; and
 - assessing & interpreting soil, sub-slab and indoor air vapor results.
- Work with DHS/DPH staff in all situations where people may be exposed to contaminants of concern.

Health Agency Responsibility

- Provide support when indoor air concentrations exceed Action Level(s) of contaminants. An Action Level is equal either of the following: a hazard index (HI) of 1.0 or a 1-in-100,000 excess lifetime cancer risk. DHS/DPH should be consulted to ensure that the indoor air risk is mitigated and building occupants are protected.
- Provide support to interpret and communicate indoor air results.
- When needed, help with gaining access to homes or businesses to collect sub-slab or indoor air samples to:
 - communicate risk from chemical exposures,
 - explain why samples need to be collected, and
 - address health concerns or questions.

There are overlapping responsibilities between DHS/DPH and DNR regarding indoor air risks at vapor intrusion sites. The goal is to involve DHS/DPH and local health departments in site investigation decisions when a risk to human health may exist. This allows DHS/DPH more time for collaboration with city and county health departments, which are the lead public health authorities throughout Wisconsin.

Questions? Contact Terry Evanson at DNR: 608-266-0941, Theresa.Evanson@wisconsin.gov or Liz Evans at DHS/DPH: 608-266-3393, Elizabeth.Evans@dhs.wisconsin.gov

This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240.

This publication is available in alternative format upon request. Please call 608-267-3543 for more information.



Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "brownfield"



February 03, 2014

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

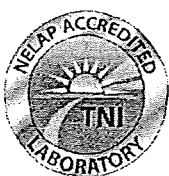
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322

Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10255522001 | SSV-1 | Air | 01/16/14 16:04 | 01/21/14 13:10 |
| 10255522002 | SSV-2 | Air | 01/16/14 16:22 | 01/21/14 13:10 |

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SAMPLE ANALYTE COUNT

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 10255522001 | SSV-1 | TO-15 | AH2 | 5 |
| 10255522002 | SSV-2 | TO-15 | AH2 | 5 |

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ANALYTICAL RESULTS

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

| Sample: SSV-1 | | Lab ID: 10255522001 | Collected: 01/16/14 16:04 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 02/01/14 05:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 02/01/14 05:10 | 156-60-5 | |
| Tetrachloroethene | 246000 | ug/m3 | 1270 | 1843.2 | | 02/01/14 18:34 | 127-18-4 | A3 |
| Trichloroethene | 3.3 | ug/m3 | 0.79 | 1.44 | | 02/01/14 05:10 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 1.44 | | 02/01/14 05:10 | 75-01-4 | |

| Sample: SSV-2 | | Lab ID: 10255522002 | Collected: 01/16/14 16:22 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 6180 | 7628.8 | | 02/01/14 13:11 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 6180 | 7628.8 | | 02/01/14 13:11 | 156-60-5 | |
| Tetrachloroethene | 7000000 | ug/m3 | 5260 | 7628.8 | | 02/01/14 13:11 | 127-18-4 | E |
| Trichloroethene | ND | ug/m3 | 4200 | 7628.8 | | 02/01/14 13:11 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 1980 | 7628.8 | | 02/01/14 13:11 | 75-01-4 | |

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QUALITY CONTROL DATA

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

QC Batch: AIR/19326 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255522001, 10255522002

METHOD BLANK: 1618172 Matrix: Air
Associated Lab Samples: 10255522001, 10255522002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Tetrachloroethene | ug/m3 | ND | 0.69 | 01/31/14 16:03 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 01/31/14 16:03 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 01/31/14 16:03 | |

LABORATORY CONTROL SAMPLE: 1618173

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 48.6 | 121 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 83.1 | 120 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 45.6 | 113 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 66.8 | 122 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 29.3 | 113 | 69-132 | |

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QUALIFIERS

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

SAMPLE QUALIFIERS

Sample: 10255522002

[1] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|-----------|-------------------|------------------|
| 10255522001 | SSV-1 | TO-15 | AIR/19326 | | |
| 10255522002 | SSV-2 | TO-15 | AIR/19326 | | |

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

10255022

18376

Page: 1 of 1

| | | |
|--|---|--|
| Section A Required Client Information: | Section B Required Project Information: | Section C Invoice Information: |
| Company: <i>Robert E. Lee & Associates</i> | Report To: <i>Nicole LaPlant</i> | Attention: <i>Nicole LaPlant</i> |
| Address: <i>1250 Centennial Centre Blvd Hobart, WI 54155</i> | Copy To: | Company Name: <i>Robert E. Lee & Associates, Inc</i> |
| Email To: <i>n.la.plant@releeinc.com</i> | Purchase Order No.: | Address: <i>1250 Centennial Centre Blvd</i> |
| Phone: <i>730-662-9649</i> Fax: | Project Name: <i>Facore Quality Cleavers</i> | Pace Quote Reference: |
| Requested Due Date/TAT: | Project Number: <i>5446-001</i> | Pace Project Manager/Sales Rep: <i>Carolynne Trust</i> |
| | | Pace Profile #: |

Program

UST Superfund Emissions Clean Air Act

Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: WI

Reporting Units
 ug/m³ mg/m³
 PPBV PPMV
 Other

Report Level: II. III. IV. Other

| ITEM # | Section D Required Client Information | | MEDIA CODE | PID Reading (Client only) | COLLECTED | | | | Canister Pressure (Initial Field - psig) | Canister Pressure (Final Field - psig) | Summa Can Number | Flow Control Number | Method: | | | | | | | Pace Lab ID | | |
|--------|---------------------------------------|---------------------------------|------------|---------------------------|-----------------|------|-------------|------|--|--|------------------|---------------------|---------|------------------|------|-----------------|-------------|-------------|-------|-------------|-------|-------------------|
| | AIR SAMPLE ID | | | | COMPOSITE START | | COMPOSITE - | | | | | | PM10 | 3C-Fixed Gas (%) | TO-3 | TO-3M (Methane) | TO-1 (PCBs) | TO-13 (PAH) | TO-14 | | TO-15 | TO-15 Short List* |
| | Sample IDs MUST BE UNIQUE | Valid Media Codes MEDIA CODE | | | DATE | TIME | DATE | TIME | | | | | | | | | | | | | | |
| 1 | SSU-1 | GLC | 1-16-14 | 1523 | 1-16-14 | 1604 | -30 | -3 | X562 | X0948 | | | | | | | X | 001 | | | | |
| 2 | SSU-2 | GLC | 1-16-14 | 1548 | 1-16-14 | 1622 | -28 | -4 | X X 23 | X 0935 | | | | | | | X | 002 | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |

Comments:
5 compounds only
-PCE, TCE, cis-DCE
trans-DCE, VC

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|-------------------------------|---------|-------|---------------------------|---------|-------|-------------------|-----|-----|-----|
| <i>[Signature]</i> | 1-16-14 | 20:00 | <i>[Signature]</i> | 1-21-14 | 13:10 | AMB | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N |



DOCUMENT NAME:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.09

DOCUMENT REVISION: 20080503
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name:

Robert E. Lee

Project #:

WO#: **10255522**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: 5753 4197 5150

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 72387080
 B88A9132521491 180512447
Date & Initials of Person Examining Contents: CE 1/22/14

Temp should be above freezing to 6°C Correction Factor: _____
Type of ice Received Blue Wet None

Comments:

| | | |
|---------------------------------------|--|-----|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name and/or Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Media: <u>Ac Cn</u> | | 11. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |

Samples Received: 2 Ac Cn

| Canisters | | Flow Controllers | | Stand Alone G | |
|---------------|--------|------------------|--------|---------------|--------|
| Sample Number | Can ID | Sample Number | Can ID | Sample Number | Can ID |
| SSV-1 | 0562 | 0998 | | | |
| SSV-2 | 0023 | 0935 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: CE

Date: 1/22/14

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)

February 03, 2014

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

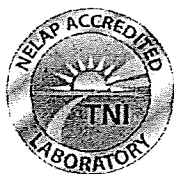
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322

Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10255520001 | IA-1 | Air | 01/16/14 15:12 | 01/21/14 13:10 |
| 10255520002 | IA-2 | Air | 01/16/14 15:15 | 01/21/14 13:10 |
| 10255520003 | OA-1 | Air | 01/16/14 15:18 | 01/21/14 13:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 10255520001 | IA-1 | TO-15 | DR1 | 5 |
| 10255520002 | IA-2 | TO-15 | AH2 | 5 |
| 10255520003 | OA-1 | TO-15 | DR1 | 5 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5446-001 Former Quailly Cleane
Pace Project No.: 10255520

| Sample: IA-1 | | Lab ID: 10255520001 | Collected: 01/16/14 15:12 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|-----------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND ug/m3 | | 1.3 | 1.61 | | 01/31/14 00:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND ug/m3 | | 1.3 | 1.61 | | 01/31/14 00:20 | 156-60-5 | |
| Tetrachloroethene | 882 ug/m3 | | 22.2 | 32.2 | | 01/31/14 16:06 | 127-18-4 | |
| Trichloroethene | ND ug/m3 | | 0.89 | 1.61 | | 01/31/14 00:20 | 79-01-6 | |
| Vinyl chloride | ND ug/m3 | | 0.42 | 1.61 | | 01/31/14 00:20 | 75-01-4 | |

| Sample: IA-2 | | Lab ID: 10255520002 | Collected: 01/16/14 15:15 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|-----------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND ug/m3 | | 25.1 | 31 | | 02/01/14 03:38 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND ug/m3 | | 25.1 | 31 | | 02/01/14 03:38 | 156-60-5 | |
| Tetrachloroethene | 865 ug/m3 | | 21.4 | 31 | | 02/01/14 03:38 | 127-18-4 | |
| Trichloroethene | ND ug/m3 | | 17.0 | 31 | | 02/01/14 03:38 | 79-01-6 | |
| Vinyl chloride | ND ug/m3 | | 8.1 | 31 | | 02/01/14 03:38 | 75-01-4 | |

| Sample: OA-1 | | Lab ID: 10255520003 | Collected: 01/16/14 15:18 | Received: 01/21/14 13:10 | Matrix: Air | | | |
|--------------------------|-----------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| cis-1,2-Dichloroethene | ND ug/m3 | | 1.3 | 1.55 | | 01/30/14 23:18 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND ug/m3 | | 1.3 | 1.55 | | 01/30/14 23:18 | 156-60-5 | |
| Tetrachloroethene | 1.5 ug/m3 | | 1.1 | 1.55 | | 01/30/14 23:18 | 127-18-4 | |
| Trichloroethene | ND ug/m3 | | 0.85 | 1.55 | | 01/31/14 15:40 | 79-01-6 | |
| Vinyl chloride | ND ug/m3 | | 0.40 | 1.55 | | 01/30/14 23:18 | 75-01-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

QC Batch: AIR/19314 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255520001, 10255520003

METHOD BLANK: 1617456 Matrix: Air
Associated Lab Samples: 10255520001, 10255520003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/30/14 12:33 | |
| Tetrachloroethene | ug/m3 | ND | 0.69 | 01/30/14 12:33 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/30/14 12:33 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 01/30/14 12:33 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 01/30/14 12:33 | |

LABORATORY CONTROL SAMPLE: 1617457

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 39.0 | 97 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 80.0 | 116 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 37.1 | 92 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 52.5 | 96 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 24.4 | 94 | 69-132 | |

SAMPLE DUPLICATE: 1617845

| Parameter | Units | 10255499001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------|-------|--------------------|------------|-----|---------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | ND | | | 25 |
| Tetrachloroethene | ug/m3 | ND | ND | | | 25 |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | | 25 |
| Trichloroethene | ug/m3 | 30.0 | 30.0 | .2 | | 25 |
| Vinyl chloride | ug/m3 | ND | ND | | | 25 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

QC Batch: AIR/19326 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255520002

METHOD BLANK: 1618172 Matrix: Air
Associated Lab Samples: 10255520002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Tetrachloroethene | ug/m3 | ND | 0.69 | 01/31/14 16:03 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 01/31/14 16:03 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 01/31/14 16:03 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 01/31/14 16:03 | |

LABORATORY CONTROL SAMPLE: 1618173

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 48.6 | 121 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 83.1 | 120 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 45.6 | 113 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 66.8 | 122 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 29.3 | 113 | 69-132 | |

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255520

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|-----------|-------------------|------------------|
| 10255520001 | IA-1 | TO-15 | AIR/19314 | | |
| 10255520002 | IA-2 | TO-15 | AIR/19326 | | |
| 10255520003 | OA-1 | TO-15 | AIR/19314 | | |

REPORT OF LABORATORY ANALYSIS

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

10255520

18376

Page: 1 of 1

| | | | |
|--|---|--|---|
| Section A Required Client Information: | Section B Required Project Information: | Section C Invoice Information: | Program |
| Company: <i>Robert E. Lee & Associates</i> | Report To: <i>Nicole LaPlant</i> | Attention: <i>Nicole LaPlant</i> | <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other |
| Address: <i>1250 Centennial Centre Blvd Hobart, WI 54155</i> | Copy To: | Company Name: <i>Robert E. Lee & Associates, Inc</i> | |
| Email To: <i>n.la.plant@releeinc.com</i> | Purchase Order No.: | Address: <i>1250 Centennial Centre Blvd</i> | Location of Sampling by State: <i>WI</i> |
| Phone: <i>920-462-9641</i> Fax: | Project Name: <i>Former Quality Cleaners</i> | Pace Quote Reference: | Reporting Units <input checked="" type="checkbox"/> ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other |
| Requested Due Date/TAT: | Project Number: <i>5446-001</i> | Pace Project Manager/Sales Rep. <i>Carolynne Trust</i> | Report Level: II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> Other <input type="checkbox"/> |
| | | Pace Profile #: | |

| ITEM # | 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 | MEDIA CODE | PID Reading (Client only) | COLLECTED | | | | Canister Pressure (Initial Field - psig) | Canister Pressure (Final Field - psig) | Summa Can Number | Flow Control Number | Method: | | | | | | | | Pace Lab ID | | |
|--------|--|---|------------|---------------------------|-----------------------------|------|-------------|------|--|--|------------------|---------------------|---------|-------------------|------|-----------------|-------------|-------------|-------|-------|-------------|------------------|-----|
| | | | | | COMPOSITE START END/GRAB | | COMPOSITE - | | | | | | PM10 | 3c- Fixed Gas (%) | TO-3 | TO-3M (Methane) | TO-4 (PCBs) | TO-13 (PAH) | TO-14 | TO-15 | | TO-15 Short List | |
| | | | | | DATE | TIME | DATE | TIME | | | | | | | | | | | | | | | |
| 1 | IA-1 | | 6LC | | 1-16-14 | 0801 | 1-16-14 | 1512 | -29 | -4 | X 682 | X 0256 | | | | | | | | X | 601 | | |
| 2 | IA-2 | | 6LC | | 1-16-14 | 0806 | 1-16-14 | 1515 | -30 | -4 | X 636 | X 0367 | | | | | | | | | X | 002 | |
| 3 | OA-1 | | 6LC | | 1-16-14 | 0834 | 1-16-14 | 1518 | -30 | -45 | X 798 | X 0224 | | | | | | | | | | X | 003 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | |

Comments:
5 compounds only
-PCE, TCE, cis-DCE
trans-DCE, VC

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|-------------------------------|---------|------|---------------------------|---------|-------|---------------------------------|
| <i>[Signature]</i> | 1-16-14 | 2000 | <i>[Signature]</i> | 1-21-14 | 13:10 | Y/N Y/N Y/N Y/N Y/N |
| | | | | | | Y/N Y/N Y/N Y/N |
| | | | | | | Y/N Y/N Y/N |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: *Dan Eichstaedt*
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed (MM/DD/YY): *1-16-14*

Temp in °C
 Received on ice
 Custody Sealed Cooler
 Samples Intact

ORIGINAL



Air Sample Condition Upon Receipt

Client Name: Robert E Lee

Project #:

WO# : 10255520



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: 5753 4197 5161

Optional: Proj. Due Date: _____ Proj. Name: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 72337080
 B88A9132521491 80712447
Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: CH 1-21-14

Type of ice Received Blue Wet None

Comments:

| | | |
|---------------------------------------|--|-----|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name and/or Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Media: <u>AV</u> | | 11. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |

Samples Received: 3 Air Can, 3 Flow Controllers

| Canisters | | Flow Controllers | | Stand Alone G | |
|---------------|------------|------------------|--------|---------------|--------|
| Sample Number | Can ID | Sample Number | Can ID | Sample Number | Can ID |
| <u>IA-1</u> | <u>682</u> | <u>0256</u> | | | |
| <u>IA-2</u> | <u>636</u> | <u>0367</u> | | | |
| <u>OA-1</u> | <u>798</u> | <u>0224</u> | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: [Signature] Date: 1/22/14

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)