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Mike Schmoller
Project Manager
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Rd
Fitchburg WI 53711

ENVIRONMENT

Subject:
Summary of Vapor Sampling Activities, Madison-Kipp Corporation Site, 201
Waubesa Street, Madison, Wisconsin.

Date:
May 7, 2012

Dear Mr. Schmoller:

Contact:
Jennine Trask

On behalf of Madison-Kipp Corporation, this letter provides a summary of the vapor sampling activities performed during the Spring of 2012 at neighboring residences to the Madison-Kipp site located at 201 Waubesa Street in Madison, Wisconsin (site). Vapor sampling activities were performed per discussions with the Wisconsin Department of Natural Resources (WDNR) and the tasks listed in the *Draft #9 - Environmental Response Activity Scope of Work (Draft SOW)* dated March 27, 2012. The *Draft SOW* task included the collection of sub-slab vapor and indoor air samples at 11 residences adjacent to the site, subject to access approval. Access was provided to ARCADIS, on behalf of Madison-Kipp Corporation, to perform vapor sampling activities at 9 of the 11 residences. Despite repeated requests, the home owners of 106 South Marquette Street and 138 Marquette Street denied access to perform vapor sampling activities. The following provides a list of the residences that provided access for vapor sampling activities:

Phone:
414.277.6203

Email:
Jennine.Trask@arcadis-us.com

Our ref:
WI001283.0001

102 South Marquette Street
110 South Marquette Street
114 South Marquette Street
118 South Marquette Street
126 South Marquette Street
128 South Marquette Street
130 South Marquette Street
134 South Marquette Street
142 South Marquette Street

Prior to the implementation of vapor sampling activities, ARCADIS provided Standard Operating Procedures (SOPs) for indoor air/ambient air sampling, soil gas sampling

Imagine the result

using sub-slab ports, and tracer gas leak testing to the WDNR on February 20, 2012. The WDNR approved these SOPs via electronic correspondence on February 21, 2012, and the SOPs are included as Attachment A. Following access approval from the 9 residences, a building survey and chemical inventory was performed at each residence and two sub-slab vapor probes were installed in the basement of each residence in accordance with the SOP. Copies of the building survey and chemical inventory performed at each residence are included in Attachment B.

In accordance with the SOP, following installation, the sub-slab vapor probes were allowed to equilibrate for a minimum of 24 hours prior to sampling. A total of two indoor air samples (a sample collected from the basement of the residence and a sample collected from the first floor of the residence) were collected from each residence. The indoor air samples were collected over a 24-hour period using 6-liter summa canisters. Following the collection of the indoor air samples, a sub-slab vapor sample was collected from each of the two sub-slab vapor probes at each residence. Leak detection testing was performed at the sub-slab vapor probe sample locations in accordance with the SOP. The sub-slab vapor samples were collected over an approximate 30-minute time period using 6-liter summa canisters. The indoor air and sub-slab vapor samples were submitted to Air Toxics, Inc. laboratory for analysis of five volatile organic compounds (VOCs) by EPA Method TO-15. The five VOCs analyzed include tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride, as outlined in the *Draft SOW*. For quality control purposes, ambient air samples were collected at the same time (over a 24-hour period) each day indoor air samples were collected. Duplicate samples, from approximately 10% of the samples, were also collected for quality assurance purposes.

A summary of the indoor air and sub-slab vapor analytical results is presented in Table 1 and shown on Figure 1. The indoor air analytical results were compared to the Wisconsin residential vapor action levels for indoor air, and the sub-slab vapor analytical results were compared to calculated screening levels for sub-slab vapor to indoor air in accordance with the guidelines presented in the WDNR's *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* dated December 2010. The action levels and calculated residential screening levels are based on the U.S. Environmental Protection Agency (U.S. EPA) Residential Air Screening Levels that represent health-protective concentrations that an individual can be exposed to for 30 years for 24 hours a day. The U.S. EPA provided their Final Toxicological Review for PCE on February 10, 2012 and the revised values for PCE are included in Table 1.

As presented in Table 1, none of the VOC detections in the indoor air or sub-slab vapor samples exceeded the Wisconsin residential vapor action levels or calculated residential screening levels. Thus, the sample results indicate that there is not a risk to human health due to vapor intrusion at these residences. Copies of the laboratory analytical reports are included as Attachment C.

Upon receipt of the laboratory analytical results, a letter was sent to each resident that included a summary of the sampling activities, building survey and chemical inventory, sample logs, and laboratory reports. Copies of each of the resident letters and documentation packages are included as Attachment B.

If you have any questions or require any additional information, please contact us at 414.276.7742.

Sincerely,
ARCADIS U.S., Inc.



Christopher D. Kubacki, PE
Project Engineer



Jennine L. Trask, PE
Project Manager

Attachments:

- Table 1 - Summary of Residential Vapor Sampling
- Figure 1 - Summary of Vapor Sampling PCE Analytical Results
- A Standard Operating Procedures
- B Resident Letters and Documentation Packages
- C Laboratory Reports

Copies:

David Crass – Michael Best
Mark Meunier – Madison Kipp
Steve Tinker – Wisconsin Department of Justice

Table 1. Summary of Residential Vapor Sampling, Spring 2012, Madison-Kipp Corporation.

Address	Wisconsin Vapor Action Level (WI AL) ^{1,2}	Calculated Screening Levels ³	102 S. Marquette Street				110 S. Marquette Street			
			IAB-1	IAF-1	SSV-1-1	SSV-2-1	IAB-3	IAF-3	SSV-1-3	SSV-2-3
Sample Name	Residential	Residential	3/16/12	3/16/12	4/13/12	4/13/12	3/15/12	3/15/12	3/17/12	3/16/12
Sample Date	Indoor Air	SubSlab								
VOC										
cis-1,2-Dichloroethene	NE	NE	<0.033	<0.033	<0.15	<0.15	<0.032	<0.033	<0.16	<0.16
Tetrachloroethene	6	60	<0.033	<0.033	0.96	0.18	0.06	0.06	1.5	0.28
trans-1,2-Dichloroethene	15.9	159	<0.16	<0.16	<0.15	<0.15	<0.16	<0.16	<0.16	<0.16
Trichloroethene	0.39	4	<0.033	<0.033	<0.15	<0.15	<0.032	<0.033	<0.16	<0.16
Vinyl Chloride	0.63	6	<0.016	<0.016	<0.15	<0.15	<0.016	<0.016	<0.16	<0.16

Footnotes on Page 5

Table 1. Summary of Residential Vapor Sampling, Spring 2012, Madison-Kipp Corporation.

Address	Wisconsin Vapor Action Level (WI AL) ^{1,2}	Calculated Screening Levels ³	114 S. Marquette Street				118 S. Marquette Street			
			IAB-4	IAF-4	SSV-1-4	SSV-2-4	IAB-5	IAF-5	SSV-1-5	SSV-2-5
Sample Name	Residential	Residential	3/29/12	3/29/12	3/29/12	3/29/12	3/13/12	3/13/12	3/13/12	3/13/12
Sample Date	Indoor Air	SubSlab								
VOC										
cis-1,2-Dichloroethene	NE	NE	<0.027	<0.03	<0.16	<0.16	<0.034	<0.04	<0.16	<0.16
Tetrachloroethene	6	60	0.084	0.092	1.7	0.5	0.14	0.061	1.4	0.32
trans-1,2-Dichloroethene	15.9	159	<0.14	<0.15	<0.16	<0.16	<0.17	<0.2	<0.16	<0.16
Trichloroethene	0.39	4	<0.027	<0.03	<0.16	0.27	<0.034	<0.04	<0.16	<0.16
Vinyl Chloride	0.63	6	<0.014	<0.015	<0.16	<0.16	<0.017	<0.02	<0.16	<0.16

Footnotes on Page 5

Table 1. Summary of Residential Vapor Sampling, Spring 2012, Madison-Kipp Corporation.

Address	Wisconsin Vapor Action Level (WI AL) ^{1,2}	Calculated Screening Levels ³	126 S. Marquette Street				128 S. Marquette Street			
			Residential	Residential	IAB-6	IAF-6	SSV-1-6	SSV-2-6	IAB-7	IAF-7
Sample Name	Residential	Residential	IAB-6	IAF-6	SSV-1-6	SSV-2-6	IAB-7	IAF-7	SSV-1-7	SSV-2-7
Sample Date	Indoor Air	SubSlab	3/15/12	3/15/12	3/16/12	3/16/12	3/13/12	3/13/12	3/14/12	3/14/12
VOC										
cis-1,2-Dichloroethene	NE	NE	<0.036	<0.036	<0.16	<0.17	<0.033	<0.038	<0.16	<0.15
Tetrachloroethene	6	60	0.046	0.045	5.8	0.79	<0.033	<0.038	0.18	<0.15
trans-1,2-Dichloroethene	15.9	159	<0.18	<0.18	<0.16	<0.17	<0.16	<0.19	<0.16	<0.15
Trichloroethene	0.39	4	<0.036	<0.036	<0.16	<0.17	<0.033	<0.038	<0.16	<0.15
Vinyl Chloride	0.63	6	<0.018	<0.018	<0.16	<0.17	<0.016	<0.019	<0.16	<0.15

Footnotes on Page 5

Table 1. Summary of Residential Vapor Sampling, Spring 2012, Madison-Kipp Corporation.

Address	Wisconsin Vapor Action Level (WI AL) ^{1,2}	Calculated Screening Levels ³	130 S. Marquette Street				134 S. Marquette Street					
			Residential	Residential	IAB-8	IAF-8	SSV-1-8	SSV-2-8	IAB-9	IAF-9	SSV-1-9	SSV-2-9
					Indoor Air	SubSlab	3/14/12	3/14/12	3/14/12	3/14/12	3/15/12	3/15/12
VOC												
cis-1,2-Dichloroethene	NE	NE	<0.036	<0.043	<0.17	<0.16	<0.073	<0.035	<0.17	<0.16		
Tetrachloroethene	6	60	0.036	<0.043	2.4	0.46	0.14	0.035	6.2	1.6		
trans-1,2-Dichloroethene	15.9	159	<0.18	<0.21	<0.17	<0.16	5.5	0.54	<0.17	<0.16		
Trichloroethene	0.39	4	<0.036	<0.043	<0.17	<0.16	<0.073	<0.035	<0.17	<0.16		
Vinyl Chloride	0.63	6	<0.018	<0.021	<0.17	<0.16	<0.036	<0.018	<0.17	<0.16		

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Table 1. Summary of Residential Vapor Sampling, Spring 2012, Madison-Kipp Corporation.

Address	Wisconsin Vapor Action Level (WI AL) ^{1,2}	Calculated Screening Levels ³	142 S. Marquette Street.			
			Residential	Residential	SSV-1-11	SSV-2-11
Sample Name	Residential	Residential	IAB-11	IAF-11	SSV-1-11	SSV-2-11
Sample Date	Indoor Air	SubSlab	3/14/12	3/14/12	3/14/12	3/14/12
VOC						
cis-1,2-Dichloroethene	NE	NE	<0.035	<0.036	<0.16	<0.16
Tetrachloroethene	6	60	<0.035	<0.036	1.4	0.52
trans-1,2-Dichloroethene	15.9	159	<0.18	<0.18	<0.16	<0.16
Trichloroethene	0.39	4	<0.035	<0.036	<0.16	<0.16
Vinyl Chloride	0.63	6	<0.018	<0.018	<0.16	<0.16

All units presented in parts per billion by volume (ppbv)

1 - WI ALs are the lower of the United States Environmental Protection Agency (USEPA) Residential Screening Levels (RSLs) based on either a target cancer risk of 10-5 or a noncancer HQ of 1.

2 - Section VI A 1 of *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* (WDNR, 2010), accessed at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>

3 - For residential, the following attenuation factor was used: 0.1 for sub-slab vapor to indoor air [Section VI A 2 of WDNR (2010)].

NE Not Established

IAB Indoor Air Sample collected from the basement of the residence

IAF Indoor Air Sample collected from the first floor of the residence

SSV Sub-slab Vapor Sample

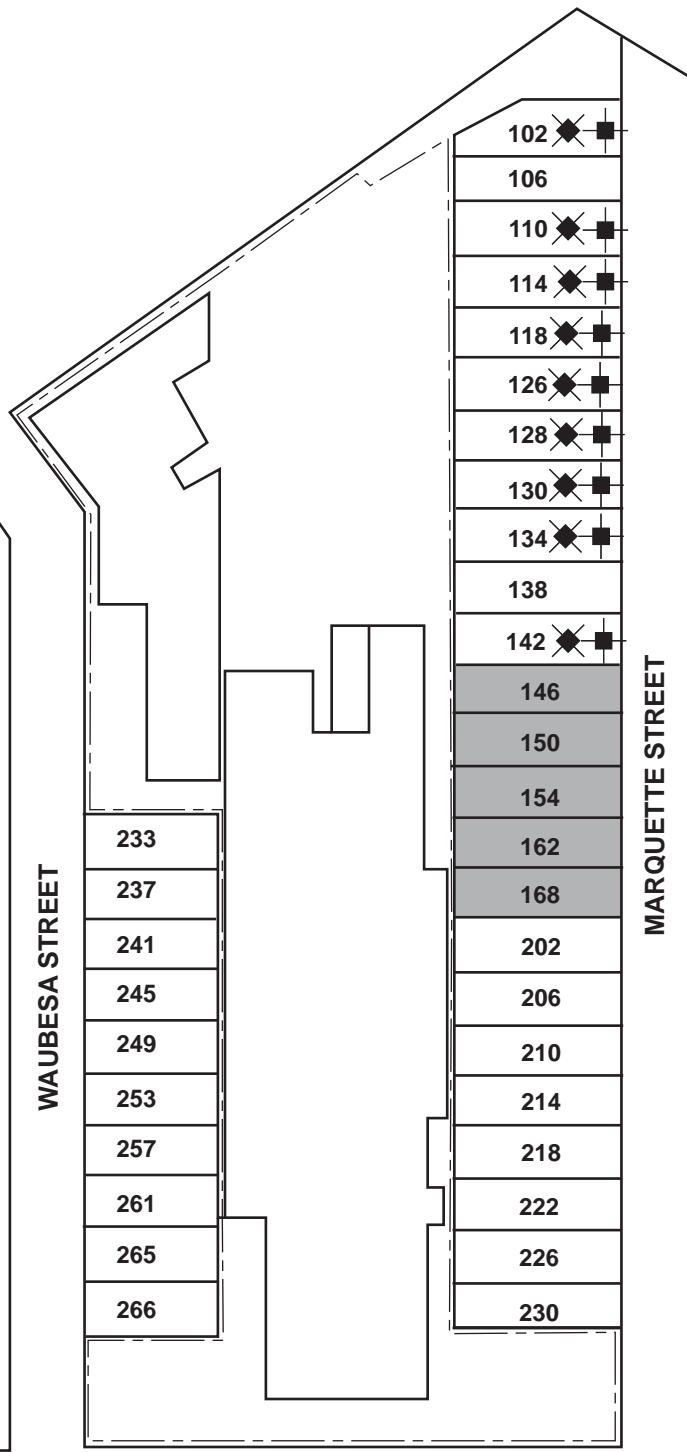
VOC Volatile organic compound

134 S. Marquette Street

	IAB-9	IAF-10	SSV-1-9	SSV-2-9
	3/15/12	3/15/12	3/16/12	3/16/12
PCE	0.14	0.035	6.2	1.6

142 S. Marquette Street

	IAB-11	IAF-11	SSV-1-11	SSV-2-11
	3/14/12	3/14/12	3/14/12	3/14/12
PCE	ND	ND	1.4	0.52



102 S. Marquette Street

	IAB-1	IAF-1	SSV-1-1	SSV-2-1
	3/16/12	3/16/12	4/13/12	4/13/12
PCE	ND	ND	0.96	0.18

110 S. Marquette Street

	IAB-3	IAF-3	SSV-1-3	SSV-2-3
	3/15/12	3/15/12	3/17/12	3/16/12
PCE	0.06	0.06	1.5	0.28

114 S. Marquette Street

	IAB-4	IAF-4	SSV-1-4	SSV-2-4
	3/29/12	3/29/12	3/29/12	3/29/12
PCE	0.084	0.092	1.7	0.5

118 S. Marquette Street

	IAB-5	IAF-5	SSV-1-5	SSV-2-5
	3/13/12	3/13/12	3/13/12	3/13/12
PCE	0.14	0.061	1.4	0.32

126 S. Marquette Street

	IAB-6	IAF-6	SSV-1-6	SSV-2-6
	3/15/12	3/15/12	3/16/12	3/16/12
PCE	0.046	0.045	5.8	0.79

128 S. Marquette Street

	IAB-7	IAF-7	SSV-1-7	SSV-2-7
	3/13/12	3/13/12	3/14/12	3/14/12
PCE	ND	ND	0.18	ND

130 S. Marquette Street

	IAB-8	IAF-8	SSV-1-8	SSV-2-8
	3/14/12	3/14/12	3/14/12	3/14/12
PCE	0.036	ND	2.4	0.46

Legend

- Subject Property
- Sub-Slab Vapor Probe Samples Collected
- Indoor Air Samples Collected
- House With Installed Mitigation System
- PCE Tetrachloroethene (concentrations presented in parts per billion by volume (ppbv))
- ND not detected
- IAB Indoor Air Sample collected from basement of residence.
- IAF Indoor Air Sample collected from first floor of residence.
- SSV Sub-Slab Vapor Probe Sample
- PCE concentration exceeds the Wisconsin vapor action level for residential indoor air (6 ppbv) or the calculated screening level for residential sub-slab vapor (60 ppbv).

Note: None of the indoor air or sub-slab vapor samples collected during the Spring 2012 monitoring event contained concentrations in exceedance of the Wisconsin vapor action levels or calculated screening levels.



MADISON KIPP CORPORATION AND
NEIGHBORING PROPERTIES

**SUMMARY OF VAPOR SAMPLING
PCE ANALYTICAL RESULTS
SPRING 2012**



FIGURE
1

**Soil Gas Sampling
Using Single Ports**

I. Scope and Application

This document describes the procedures for installing semi-permanent or permanent single soil-gas ports and collecting soil-gas samples. Samples are collected for the analysis of volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15 (TO-15). Method TO-15 uses a 1-liter, 3-liter or 6-liter SUMMA® passivated stainless steel canister. An evacuated SUMMA canister (less than 28 inches of mercury [Hg]) will provide a recoverable whole-gas sample of approximately 5 liters when allowed to fill to a vacuum of 6 inches of Hg. The whole-air sample is then analyzed for VOCs using a quadrupole or ion-trap gas chromatograph/mass spectrometer (GS/MS) system to provide compound detection limits of 0.5 parts per billion volume (ppbv). Optionally, the whole air sample can also be analyzed for permanent gasses such as oxygen and carbon dioxide.

The following sections list the necessary equipment and provide detailed instructions for the installation of semi-permanent or permanent single soil-gas ports (using direct-push technology or a hollow stem auger) and the collection of soil-gas samples for VOC analysis.

II. Personnel Qualifications

Field sampling personnel will have current health and safety training, including 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training. Site supervisor training, site-specific training, first-aid, and cardiopulmonary resuscitation (CPR), may be appropriate at some sites. Field sampling personnel will be well versed in the relevant standard operating procedures (SOPs) and possess the required skills and experience necessary to successfully complete the desired field work. Personnel responsible for leading soil-gas sample collection activities must have previous soil-gas sampling experience.

III. Health and Safety Considerations

All sampling personnel should review the appropriate health and safety plan (HASP) and job safety analysis (JSA) prior to beginning work to be aware of all potential hazards associated with the job site and the specific installation. Field sampling equipment must be carefully handled to minimize the potential for injury and the

spread of hazardous substances. For vapor port installation, drilling with a direct-push drilling rig or hollow stem auger rig should be done only by personnel with prior experience using such of equipment.

IV. Equipment List

The equipment required to install single soil vapor ports is presented below:

- Appropriate personal protective equipment (PPE; as required by the HASP and JSA);
- Appropriate drill rig to reach necessary sample depth (hollow stem auger, direct-push rig, etc)
 - Hollow stem auger rig with interconnecting augers. The inner diameter of typical augers ranges from 2.25-inches to 7.75-inches.
 - Direct-push rig (e.g., -Geoprobe) equipped with interconnecting 4-foot lengths of steel drive rods (2.25-inch-diameter, or 3.25-inch diameter).
- 1/4-inch outside diameter (OD) x 1/8-inch inside diameter (ID) tubing (Teflon, Teflon lined, or nylon). Note that Nylaflow tubing has a somewhat higher background level of BTEX and much poorer recovery of trichlorobenzene and naphthalene than Teflon, so it should not be used on site where these compounds are a concern (Hayes, 2006)
- Stainless steel sample screens with sacrificial point (one per sample depth to weight sample screen, available from Geoprobe). Typically 6" long for sized for 1/4-inch OD tubing.
- Stainless steel, or Teflon ball valve or needle valve (one per sample depth to match sample tubing) for sample line termination.
- Commercially available clean sand filter pack or glass beads having a grain size larger than 0.0057-inch (pore diameter of screen)
- Granular and powdered bentonite (Benseal[®], Volclay[®] Crumbles, or equivalent)
- Down hole measuring device

- Distilled or Deionized water for hydration of bentonite
- Plastic or aluminum tags for permanently labeling port with sample depth, and port identification number. It is not recommended to write on or affix adhesive tape to tubing as these methods fail over time.
- Well cover for permanent installation, This should be a traffic rated road box for exterior installations or an appropriate clean-out cover for interior installations.
- Photoionization Detector (PID) (with a lamp of 10.6 eV).

The equipment required for soil-gas sample collection from single ports is presented below:

- 1,3, or 6 – liter stainless steel SUMMA® canisters (order at least one extra, if feasible) (batch certified canisters or individual certified canisters as required by the project)
- Flow controllers with in-line particulate filters and vacuum gauges; flow controllers are pre-calibrated to specified sample duration (e.g., 30 minutes, 8 hours, 24 hours) or flow rate (e.g., 200 milliliters per minute [mL/min]); confirm with the laboratory that the flow controller comes with an in-line particulate filter and pressure gauge (order at least one extra, if feasible). Flow rate should be selected based on expected soil type (see below)
- Decontaminated stainless steel 1/4-inch Swagelok (or equivalent) fittings (e.g., nuts, ferrules and backers)
- Decontaminated stainless steel Swagelok or comparable “T” fitting and needle valve for isolation of purge pump.
- Stainless steel or brass “T” fitting (if collecting duplicate [i.e., split] samples). Swage-lok or comparable
- Portable vacuum pump capable of producing very low flow rates (e.g., 100 to 200 mL/min) with vacuum gauge. Purging flow rate should also be selected based on expected soil type (see below).

- Rotameter or an electric flow sensor if vacuum pump does not have an accurate flow gauge (Bios DryCal or equivalent).
- Tracer gas testing supplies if applicable (refer to tracer SOP)
- Photoionization Detector (PID) (with a lamp of 10.6 eV)
- Appropriate-sized open-end wrench (typically 9/16-inch, 1/2-inch, and 3/4-inch)
- Down hole measuring device (e.g., water level probe, tape measure)
- Portable weather meter, if appropriate
- Chain-of-custody (COC) forms
- Sample collection logs (attached)
- Field Book

V. Cautions

The following cautions and field tips should be reviewed and considered prior to installing or collecting a single soil-gas sample.

- When drilling to install sampling ports, be mindful of utilities that may be in the area. Follow utility location procedure. If the driller is concerned about a particular location, consult the project manager about moving it to another location. Do not hesitate to use Stop Work Authority; if something doesn't seem right stop and remedy the situation.
- Sampling personnel should not handle hazardous substances (such as gasoline), permanent marking pens (sharpies), wear/apply fragrances, or smoke cigarettes/cigars before and/or during the sampling event.
- Ensure that the flow controller is pre-calibrated to the proper sample collection duration (confirm with laboratory). Sample integrity can be compromised if sample collection is extended to the point that the canister reaches atmospheric pressure. Sample integrity is maintained if sample collection is terminated prior to the target duration and a measurable vacuum (e.g., 3-7-

inches Hg) remains in the canister when sample collection is terminated. Do not let sample canister reach atmospheric pressure (e.g., 0-inches Hg).

- When introducing granular bentonite to the boring, the material should be introduced slowly and hydrated properly. Consult the bentonite manufacturer's instructions on the bag to determine the proper amount of to be used. When hydrated properly bentonite forms a thick clay mass that remains moist. The hydration step is crucial in the installation process and if not done properly the integrity of the bentonite seal can be compromised.
- Using prehydrated bentonite is best and should be discussed with drilling subcontractor.
- The purge flow rate of 100 ml/min should be suitable for a variety of silt and sand conditions but will not be achievable in some clays without excessive vacuum. Thus lower flow rates may be necessary in clay. A low vacuum (<10" of mercury) should be maintained. Record the measured flow rate and vacuum pressure during sample collection.

The cutoff value for vacuum differs in the literature from 10" of water column (ITRC 2007) to 136" of water column or 10" of mercury (http://www.dtsc.ca.gov/lawsregspolicies/policies/SiteCleanup/upload/SMBR_ADV_activesoilgasinvst.pdf). A detailed discussion of the achievable flow rates in various permeability materials can be found in Nicholson 2007. Related issues of contaminant partitioning are summarized in ASTM D5314-92. Passive sampling approaches can be considered as an alternative for clay soils although most passive methods for soil gas do not yield a quantitative concentration in soil gas.

- It is important to record the canister pressure, start and stop times and ID on a proper field sampling form. You should observe and record the time/pressure at a mid-point in the sample duration. It is a good practice to lightly tap the pressure gauge with your finger before reading it to make sure it isn't stuck.
- Ensure that there is still measureable vacuum in the SUMMA® after sampling. Sometimes the gauges sent from labs have offset errors, or they stick.
- When sampling carefully consider elevation. If your site is over 2,000' above sea level or the difference in elevation between your site and your lab is

more than 2,000' then pressure effects will be significant. If you take your samples at a high elevation they will contain less air for a given ending pressure reading. High elevation samples analyzed at low elevation will result in more dilution at the lab, which could affect reporting limits.

Conversely low elevation samples when received at high elevation may appear to not have much vacuum left in them.

http://www.uigi.com/Atmos_pressure.html.

- If possible, have equipment shipped two or three days before the sampling date so that all materials can be checked. Order replacements if needed.
- Requesting extra canisters from the laboratory should also be considered to ensure that you have enough equipment on site in case of an equipment failure.
- Soil-gas sampling should not proceed within 5 days following a significant rain event (1/2-inch of rainfall or more). Exceptions to this requirement may be appropriate depending on site climatic conditions, soil gas point depth and soil drainage characteristics. However since this requirement is frequently contained in regulatory documents, any exception to this requirement must be discussed with client and/or regulatory representatives. ITRC (2007) discussed the conditions when this requirement may not be necessary: *“Infiltration from rainfall can potentially impact soil gas concentrations by displacing the soil gas, dissolving VOCs, and by creating a “cap” above the soil gas. In many settings, infiltration from large storms penetrates into only the uppermost vadose zone. In general, soil gas samples collected at depths greater than about 3–5 feet bgs or under foundations or areas with surface cover are unlikely to be significantly affected. Soil gas samples collected closer to the surface (<3 feet) with no surface cover may be affected. If the moisture has penetrated to the sampling zone, it typically can be recognized by difficulty in collecting soil gas samples.”*

VI. Procedure

Single Soil-Gas Monitoring Point Installation

The procedure used to install semi-permanent or permanent single soil-gas ports will vary based upon the method of boring installation. In some situations a temporary well casing may need to be installed to keep the down hole formation from collapsing

during port installation. The following steps will detail installing soil-gas ports through a temporary well casing. These following steps should be discussed with the drilling subcontractor and altered based on the methods chosen for a given project.

1. Advance boring to bottom of deepest sampling interval and install a temporary well casing, if necessary. Care should be taken to ensure that the terminal depth of the boring does not reach groundwater or the capillary fringe. Soil-gas probes should not be installed in groundwater or the capillary fringe. Moisture conditions and/or other observations (such as depth to water in nearby monitoring wells) should be recorded on the soil-gas collection log, as indicated.
2. Cut a length of 1/4-inch tubing slightly longer (e.g., 4 to 5 feet) than the collection depth. Attach a stainless steel sample screen and sacrificial point to the tubing and lower the screen and attached tubing through the boring.
3. Assure that the sample screen has reached the bottom of the boring and record this depth.
4. Begin simultaneously filling in the area around the sample screen with sand filter pack and retracting the temporary well casing. The casing should be lowered back down onto the sand every few inches to compact the sand around the screen. Sand should be introduced 3-inches below the screen, to cover the 6-inch sample screen and extend 3-inches inches above the screen for a total of 12 inches of sand. Closely monitor the amount of sand added to the borehole with a tape measure or water level probe.
5. With the proper sand pack in place begin slowly introducing 6-inches of dry granular bentonite into the boring. This dry Bentonite will prevent water from entering the sand filter pack during hydration.
6. A slurry of hydrated bentonite should be placed above the dry granular bentonite to the ground surface.
7. Properly label the sample tubing with a permanent label to designate the sample number and screen depth.
8. Affix a Swagelok fitting and valve to the end of the tubing.
9. With all semi-permanent or permanent single ports installed and labeled, a well cover may be installed.

- a. For permanent installations, the well cover should be rated for whatever type of traffic it may encounter in the future. For interior installations a brass clean-out cover available from a plumbing supply store may provide adequate protection. For exterior installations in high traffic areas a heavy duty groundwater well cover may be appropriate.
 - b. For a semi-permanent installation, a well cover is generally not necessary as the tubing will be removed within several days.
10. All soil-gas points should be allowed to sit and equilibrate for a minimum of 24-hours before proceeding to soil-gas sample collection.

Soil-Gas Sample Collection

The following steps should be used to collect a soil-gas sample from each of the single probes installed using the above procedure.

1. Record the following information on the sample log, if appropriate (contact the local airport or other suitable information source [e.g., site-specific measurements, weatherunderground.com] to obtain the information):
 - a. wind speed and direction;
 - b. ambient temperature;
 - c. barometric pressure; and
 - d. relative humidity.
2. Assemble the sample train by removing the cap from the SUMMA canister and connecting the Swagelok T-fitting to the can using a short length of 1/4-inch OD Teflon tubing. The flow controller with in-line particulate filter and vacuum gauge is then attached to the T-fitting. The Swagelok (or similar) two-way valve is connected to the free end of the T-fitting using a short length of 1/4-inch OD Teflon tubing (precleaned stainless steel tubing could also be used).
3. When collecting duplicate or other quality assurance/quality control (QA/QC) samples as required by applicable regulations and guidance, couple two SUMMA canisters using stainless steel Swagelok duplicate sample T-fitting

supplied by the laboratory. Attach flow controller with in-line particulate filter and vacuum gauge to duplicate sample T-fitting provided by the laboratory.

4. Attach Teflon sample tubing to the flow controller using Swagelok fittings.
5. Remove the flush Swagelok cap from the sample port and install a Swagelok nut, ferrules, and sample tubing into the sub-slab port.
6. Connect the two-way valve and the portable purge pump using a length of Teflon sample tubing.
7. Record on the sample log and COC form the flow controller number with the appropriate SUMMA® canister number.
 - a. Perform a leak-down-test by replacing the nut which secures sample tubing with the cap from the canister or closing the valve on the sample port. This will create a closed system. Open the canister valve and quickly close it; the vacuum should increase approaching 30" Hg. If there are no leaks in the system this vacuum should be held. If vacuum holds proceed with sample collection; if not attempt to rectify the situation by tightening fittings.
8. The seal around the soil-gas sampling port and the numerous connections comprising the sampling train will be evaluated for leaks using helium as a tracer gas. The helium tracer gas will be administered according to the methods established in the appropriate guidance documents and SOP: Administering Tracer Gas.
9. Open the two-way valve and purge the soil-gas sampling port and tubing with the portable sampling pump. Purge approximately three volumes of air from the soil-gas sampling port and sampling line using a flow rate of 200 mL/min. Purge volume is calculated by the following equation "purge volume = 3 x Pi x inner radius of tubing² x length of tubing." Purge air should be vented away from personnel and sampling equipment, a length of tubing or Tedlar bag can be used for this purpose. Measure organic vapor levels and tracer gas within the Tedlar bag, as appropriate.
10. Close the two-way valve to isolate the purge pump.

11. Open the SUMMA® canister valve to initiate sample collection. Record on the sample log (attached) the time sampling began and the canister pressure.

If the initial vacuum pressure registers less than -25 inches of Hg, then the SUMMA® canister is not appropriate for use and another canister should be used.

12. Take a photograph of the SUMMA® canister and surrounding area unless prohibited by the property owner.
13. Check the SUMMA canister pressure approximately half way through the sample duration and note progress on sample logs.

Termination of Sample Collection

1. Arrive at the SUMMA® canister location at least 1-2 hours prior to the end of the required sampling interval (e.g., 8, 24-hours).
2. Record the final vacuum pressure. Stop collecting the sample by closing the SUMMA® canister valves. The canister should have a minimum amount of vacuum (approximately 6 inches of Hg or slightly greater).
3. Record the date and time of valve closing on the sample log and COC form.
4. Close the valve on the soil-gas sample tubing or replace Swagelok cap.
5. Once the sample has been collected, be sure the well cover (if applicable) is properly re-installed and secured.
6. Remove the particulate filters and flow controllers from the SUMMA® canisters, re-install the brass plugs on the canister fittings, and tighten with the appropriate wrench.
7. Package the canisters and flow controllers in the shipping container supplied by the laboratory for return shipment to the laboratory. The SUMMA® canisters should not be preserved with ice or refrigeration during shipment.
8. Complete the appropriate forms and sample labels as directed by the laboratory (e.g., affix card with a string).

9. Complete the COC form and place the requisite copies in a shipping container. Close the shipping container and affix a custody seal to the container closure. Ship the container to the laboratory via overnight carrier (e.g., Federal Express) for analysis.

VII. Soil-Gas Monitoring Point Abandonment

If the single soil-gas ports were installed in a semi-permanent manner, and the soil-gas samples have been collected, the soil-gas monitoring points will be abandoned by pulling up the sample tubing. Since the boring is filled with bentonite and sand, no additional abandonment steps are necessary. Ensure that the boring location and surrounding area are returned to as close to their original appearance as possible.

VIII. Waste Management

The waste materials generated by these activities should be minimal. Personal protective equipment, such as gloves and other disposable equipment (i.e., tubing) should be collected by field personnel for proper disposal. Any soils brought up from the borehole should be disposed of in a manner consistent with the project workplan.

IX. Data Recording and Management

Measurements will be recorded on the sample log at the time of measurement with notations of the project name, sample date, sample start and finish time, sample location (e.g., GPS coordinates, distance from permanent structure), canister serial number, flow controller serial number, initial vacuum reading, and final pressure reading. Field sampling logs and COC records will be transmitted to the Project Manager.

X. Quality Assurance

Duplicate samples should be collected in the field as a quality assurance step. Generally, duplicates are taken of 10% of samples, but project specific requirements should take precedence.

Soil-gas sample analysis will generally be performed using USEPA TO-15 methodology or a project specific constituent list. Method TO-15 uses a quadrupole or ion-trap GC/MS with a capillary column to provide optimum detection limits (typically 0.5-ppbv for most VOCs). A trip blank sample will accompany each shipment of soil-

gas samples to the laboratory for analysis. Trip blanks assess potential sample contamination resulting from the transportation and storing of samples.

Duplicate soil gas samples should be collected via a split sample train, allowing the primary and duplicate sample to be collected from the soil-gas probe simultaneously.

XI. References

ASTM – “Standard Guide for Soil Gas Monitoring in the Vadose Zone”, D5314-92.

ITRC “Vapor Intrusion Pathway: A Practical Guide”, January 2007, Appendix F: “regulators Checklist for Reviewing Soil Gas Data”

New York State Department of Health (NYSDOH). 2005. DRAFT “Guidance for Evaluating Soil Vapor Intrusion in the State of New York” February 23, 2005.

Nicholson, P, D. Bertrand and T. McAlary. “Soil Gas Sampling in Low-Permeability Materials” Presented at AWMA Specialty Conference on Vapor Intrusion, Providence RI, Sept 200

Hayes, H. C., D. J. Benton and N. Khan “Impact of Sampling Media on Soil Gas Measurements” Presented with short paper at AWMA Vapor Intrusion Conference, January 2006, Philadelphia, PA.

<div style="border: 1px solid black; padding: 5px; min-height: 40px;"> Madison Kipp Corporation </div>		Sub-slab Soil Vapor Sample Collection Log	
		Sample ID:	
Client:		Boring Equipment:	
Project:		Sealant:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
		Equipment:	
Sampling Depth:		Moisture Content of Sampling Zone:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppm)

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L 6 L
Canister ID:	
Flow Controller ID:	
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1¼-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

**Indoor Air or Ambient
Air Sampling and Analysis
Using USEPA Method TO-15**

I. Scope and Application

This standard operating procedure (SOP) describes the procedures to collect indoor air or ambient air samples for the analysis of volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method TO-15 (TO-15). The TO-15 method uses a 6-liter SUMMA® passivated stainless steel canister. An evacuated SUMMA® canister (<28 inches of mercury [Hg]) will provide a recoverable whole-gas sample of approximately 5 liters when allowed to fill to a vacuum of 6 inches of Hg. The whole-air sample is then analyzed for VOCs using a quadrupole or ion-trap gas chromatograph/mass spectrometer (GS/MS) system to provide compound detection limits of 0.5 parts per billion volume (ppbv).

The following sections list the necessary equipment and provide detailed instructions for placing the sampling device and collecting indoor air samples for VOC analysis.

II. Personnel Qualifications

Field sampling personnel will have current health and safety training, including 40-hour HAZWOPER training, site supervisor training, site-specific training, first aid, and cardiopulmonary resuscitation (CPR), as needed. Field sampling personnel will be well versed in the relevant SOPs and possess the required skills and experience necessary to successfully complete the desired field work. Personnel responsible for leading indoor air sample collection activities must have previous indoor air sampling experience.

III. Health and Safety Considerations

All sampling personnel should review the appropriate health and safety plan (HASP) and job safety analysis (JSA) prior to beginning work to be aware of all potential hazards associated with the job site and the specific task. The following are examples of hazards that are often encountered in conducting indoor air sampling:

- In crawl spaces, hazards often include low head room, limited light, poisonous insects, venomous snakes, and sharp debris.
- In residential buildings and neighborhoods unfamiliar dogs can pose a hazard. Even though proper permission for sampling may have been secured, it is still possible to encounter persons suspicious of or hostile to the sampling team.
- In occupied industrial buildings be aware of the physical hazards of ongoing industrial processes. Examples include moving forklifts and equipment pits.

IV. Equipment List

The equipment required for indoor air sample collection is presented below:

- 6-liter, stainless steel SUMMA® canisters (order at least one extra, if feasible);
- Flow controllers with in-line particulate filters and vacuum gauges (flow controllers are pre-calibrated by the laboratory to a specified sample duration [e.g., 8-hour]). Confirm with lab that flow controller is equipped with an in-line particulate filter and pressure gauge (order an extra set for each extra SUMMA® canister, if feasible);
- Appropriate-sized open-end wrenches (typically 9/16-inch);
- Chain-of-custody (COC) form;
- Building survey and product inventory form;
- Portable photoionization detector (PID) (for use identifying potential background sources during building survey described below);
- Sample collection log (attached);
- Camera if photography is permitted at sampling locations;
- Portable weather meter, if appropriate;
- Box, chair, tripod, or similar to hold canister above the ground surface; and
- Teflon sample tubing may be used to sample abnormal situations (i.e., sumps, where canisters must be hidden, etc.). In these situations ¼-inch Swagelok fittings or other methods may be appropriate to affix tubing to canister. Staff should check this before heading out into field.

V. Cautions

Care must be taken to minimize the potential for introducing interferences during the sampling event. As such, keep ambient air canisters away from heavy pedestrian traffic areas (e.g., main entranceways, walkways) if possible. If the canisters are not to be overseen for the entire sample duration, precautions should be taken to maintain the security of the sample (e.g., do not place in areas regularly accessed by the public, fasten the sampling device to a secure object using lock and chain, label the canister

to indicate it is part of a scientific project, notify local authorities, place the canister in secure housing that does not disrupt the integrity/validity of the sampling event). Sampling personnel should not handle hazardous substances (such as gasoline), permanent marking pens (sharpies), wear/apply fragrances, or smoke cigarettes before and/or during the sampling event.

Ensure that the flow controller is pre-calibrated to the proper sample collection duration (confirm with laboratory). Sample integrity can be compromised if sample collection is extended to the point that the canister reaches atmospheric pressure. Sample integrity is maintained if sample collection is terminated prior to the target duration and a measurable vacuum (e.g., 5–inches Hg) remains in the canister when sample collection is terminated.

VI. Procedure

Initial Building Survey for Indoor Air Samples (if applicable to project)

1. Complete the appropriate building survey form and product inventory form (e.g., state-specific form, USEPA form), as necessary in advance of sample collection.
2. Survey the area for the apparent presence of items or materials that may potentially produce or emit constituents of concern and interfere with analytical laboratory analysis of the collected sample. Record relevant information on survey form and document with photographs.
3. Record date, time, location, and other relevant notes on the sampling form.
4. Items or materials that contain constituents of concern and/or exhibit elevated PID readings shall be considered probable sources of VOCs. Request approval of the owner or occupant to have these items removed to a structure not attached to the target structure at least 48 hours prior to sampling if possible.
5. Set a date and time with the owner or occupant to return for placement of SUMMA® canisters.

Preparation of SUMMA®-Type Canister and Collection of Sample

1. Record the following information on the sampling form (use a hand-held weather meter, contact the local airport or other suitable information source [e.g., weatherunderground.com] to obtain the following information):
 - ambient temperature;

- barometric pressure;
 - wind speed; and
 - relative humidity.
2. Choose the sample location(s) in accordance with the sampling plan. If a breathing zone sample is required, place the canister on a ladder, tripod, box, or other similar stand to locate the canister orifice 3 to 5 feet above ground or floor surface. If the canister will not be overseen for the entire sampling period, secure the canisters as appropriate (e.g., lock and chain). Canister may be affixed to wall/ceiling support with nylon rope or placed on a stable surface. In general, areas near windows, doors, air supply vents, and/or other potential sources of “drafts” shall be avoided.
 3. Record SUMMA® canister serial number and flow controller number on the sampling log and chain of custody (COC) form. Assign sample identification on canister ID tag, and record on the sample collection log (Attachment A), and COC form.
 4. Remove the brass dust cap from the SUMMA® canister. Attach the flow controller with in-line particulate filter and vacuum gauge to the SUMMA® canister with the appropriate-sized wrench. Tighten with fingers first, then gently with the wrench. Use caution not to over tighten fittings.
 5. Open the SUMMA® canister valve to initiate sample collection. Record the date and local time (24-hour basis) of valve opening on the sample collection log, and COC form. Collection of duplicate samples will include collecting two samples side by side at the same time.
 6. Record the initial vacuum pressure in the SUMMA® canister on the sample log and COC form. If the initial vacuum pressure registers less than -25 inches of Hg, then the SUMMA® canister is not appropriate for use and another canister should be used.
 7. Take a photograph of the SUMMA® canister and surrounding area, if possible.
 8. Check the SUMMA canister approximately half way through the sample duration and note progress on sample logs.

Termination of Sample Collection

1. Arrive at the SUMMA® canister location at least 1-2 hours prior to the end of the sampling interval (e.g., 8-hour, 24-hour).
2. Stop collecting the sample when the canister vacuum reaches approximately 7 inches of Hg (leaving some vacuum in the canister provides a way to verify if the canister leaks before it reaches the laboratory) or when the desired sample time has elapsed.
3. Record the final vacuum pressure. Stop collecting the sample by closing the SUMMA® canister valve. Record the date, local time (24-hour basis) of valve closing on the sample collection log, and COC form.
4. Remove the particulate filter and flow controller from the SUMMA® canister, re-install brass cap on canister fitting, and tighten with wrench.
5. Package the canister and flow controller in the shipping container supplied by the laboratory for return shipment to the laboratory. The SUMMA® canister does not require preservation with ice or refrigeration during shipment.
6. Complete the appropriate forms and sample labels as directed by the laboratory (e.g., affix card with string).
7. Complete COC form and place requisite copies in shipping container. Close shipping container and affix custody seal to container closure. Ship to laboratory via overnight carrier (e.g., Federal Express) for analysis.

VII. Waste Management

No specific waste management procedures are required.

VIII. Data Recording and Management

Notes taken during the initial building survey will be recorded on the sample log, with notations of project name, sample date, sample time, and sample location (e.g., description and GPS coordinates if available) sample start and finish times, canister serial number, flow controller number, initial vacuum reading, and final vacuum reading. Sample logs and COC records will be transmitted to the Task Manager or Project Manager. A building survey form and product inventory form may also be completed for each building within the facility being sampled during each sampling event as applicable.

IX. Quality Assurance

Indoor air or ambient air sample analysis will be performed using USEPA Method TO-15. This method uses a quadrupole or ion-trap GC/MS with a capillary column to provide optimum detection limits. The GC/MS system requires a 1-liter gas sample (which can easily be recovered from a 6-liter canister) to provide a 0.5 ppbv detection limit. The 6-liter canister also provides several additional 1-liter samples in case subsequent re-analyses or dilutions are required. This system also offers the advantage of the GC/MS detector, which confirms the identity of detected compounds by evaluating their mass spectra in either the SCAN or SIM mode.

Duplicate samples should be collected in the field as a quality assurance step. Generally, duplicates are taken of 10% of samples, but project specific requirements should take precedence.

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Madison Kipp Corporation </div>		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	
Client:		Outdoor/Indoor:	
Project:		Sample Intake Height:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Time On/Off:	
Sample Point Location:		Subcontractor:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppm)

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L 6 L
Canister ID:	
Flow Controller ID:	
Notes:	

General Observations/Notes:

Administering Helium Tracer Gas for Leak Checks of Soil Gas or Sub-slab
Sampling Points

I. Scope and Application

When collecting subsurface vapor samples as part of a vapor intrusion evaluation, a tracer gas serves as a quality assurance/quality control method to verify the integrity of the vapor port seal and the numerous connections comprising the sample train. Without the use of a tracer, verification that a soil vapor sample has not been diluted by ambient or indoor air is difficult.

This standard operating procedure (SOP) focuses on using helium as a tracer gas. However, depending on the nature of the contaminants of concern, other compounds can be used as a tracer including sulfur hexafluoride (SF₆), butane and propane (or other gases). In all cases, the protocol for using a tracer gas is consistent and includes the following basic steps: (1) enrich the atmosphere in the immediate vicinity of the sample port where ambient air could enter the sampling train during sampling with the tracer gas; and (2) measure a vapor sample from the sample tubing for the presence of elevated concentrations (> 10%) of the tracer. A plastic pail, bucket, garbage can or even a plastic bag can serve to keep the tracer gas in contact with the port during the testing.

There are two basic approaches to testing for the tracer gas:

1. Include the tracer gas in the list of target analytes reported by the laboratory; and/or
2. Use a portable monitoring device to analyze a sample of soil vapor for the tracer prior to sampling for the compounds of concern. (Note that tracer gas samples can be collected via syringe, Tedlar bag, etc. They need not be collected in SUMMA® canisters or minicans.)

This SOP focuses on monitoring helium using a portable sampling device, although helium can also be analyzed by the laboratory along with other volatile organic compounds (VOCs). Real-time tracer sampling is generally preferred as the results can be used to confirm the integrity of the port seals prior to formal sample collection.

During the initial stages of a subsurface vapor sampling program, tracer gas samples should be collected at each of the sampling points. If the results of the initial samples indicate that the port seals are adequate, the Project Manager can consider reducing the number of locations at which tracer gas samples are used in future monitoring rounds. At a minimum, at least 5% of the subsequent samples should be supported with tracer gas analyses. When using permanent soil vapor points as part of a long-term monitoring program, the port should be tested prior to the first sampling event. Tracer gas testing of subsequent sampling events may often be reduced or eliminated unless conditions have changed at the site. Soil gas port integrity should certainly be

rechecked with Tracer gas if land clearing/grading activities, freeze thaw cycles, or soil dessication may have occurred. Points should also be rechecked if more than 2 years have elapsed since the last check of that port.

II. Personnel Qualifications

ARCADIS field sampling personnel will have current health and safety training, including 40-hour HAZWOPER training, site supervisor training, site-specific training, first-aid, and cardiopulmonary resuscitation (CPR), as needed. ARCADIS field sampling personnel will be well versed in the relevant SOPs and possess the required skills and experience necessary to successfully complete the desired field work. ARCADIS personnel responsible for leading the tracer gas testing must have previous experience conducting similar tests.

III. Health and Safety Considerations

Field sampling equipment must be carefully handled to minimize the potential for injury and the spread of hazardous substances. All sampling personnel should review the appropriate health and safety plan (HASP) and job safety analysis (JSA) prior to beginning work to be aware of all potential hazards associated with the job site and the specific task. Field staff should review the attachment on safely handling compressed gas cylinders prior to commencing field work.

IV. Equipment List

The equipment required to conduct a helium tracer gas test is presented below:

- Appropriate PPE for site (as required by the Health and Safety Plan)
- Helium (laboratory grade)
- Regulator for helium tank
- Shroud (plastic bucket, garbage can, etc)
 - The size of the shroud should be sufficient to fit over the sample port. It is worth noting that using the smallest shroud possible will minimize the volume of helium needed; this may be important when projects require a large number of helium tracer tests.
 - The shroud will need to have three small holes in it. These holes will include one on the top (to accommodate the sample tubing), and two

on the side (one for the helium detector probe, and one for the helium line).

- The shroud should ideally enclose the sample port and as much as possible of the sampling train.
- Helium detector capable of measuring from 1 - 100% (Dielectric MGD-2002, Mark Model 9522, or equivalent)
- Tedlar bags
- Seal material for shroud (rubber gasket, modeling clay, bentonite, etc) to keep helium levels in shroud high in windy conditions. Although the sealing material is not in direct contact with the sample if leakage does not occur, sealing materials with high levels of VOC emissions should be avoided, since they could contaminate a sample if a leak occurs.
- Sample logs
- Field notebook

V. Cautions

Helium is an asphyxiant! Be cautious with its use indoors! Never release large volumes of helium within a closed room!

Compressed gas cylinders should be handled with caution; see attachment on the use and storage of compressed gasses before beginning field work.

Care should be taken not to pressurize the shroud while introducing helium. If the shroud is completely air tight and the helium is introduced quickly, the shroud can be over-pressurized and helium can be pushed into the ground. Provide a relief valve or small gap where the helium can escape.

Because minor leakage around the port seal should not materially affect the usability of the soil vapor sampling results, the mere presence of the tracer gas in the sample should not be a cause for alarm. Consequently, portable field monitoring devices with detection limits in the low ppm range are more than adequate for screening samples for the tracer. If high concentrations (> 10%) of tracer gas are observed in a sample, the port seal should be enhanced and fittings within the sampling train should be checked and/or tightened to reduce the infiltration of ambient air and the tracer test readministered. If the problem cannot be rectified, a new sample point should be installed or an alternate sampling train used.

VI. Procedure

The procedure used to conduct the helium tracer test should be specific to the shroud being used and the methods of vapor point installation. The helium tracer test can be conducted when using temporary or permanent sampling points and inside or outside a facility. When using the tracer gas within indoor areas you must provide adequate ventilation as helium is an asphyxiant.

1. Attach Teflon or nylon (Nylaflow) sample tubing to the sample point. This can be accomplished utilizing a number of different methods depending on the sample install (i.e., most typically Swage-Lok brand compression fittings, but some quick release fittings could also be used etc.).
2. Place the shroud over the sample point and tubing.
3. Pull the tubing through hole in top of shroud. Seal opening at top of shroud with modeling clay.
4. Place weight on top of shroud to help maintain a good seal with the ground.
5. Insert helium tubing and helium detector probe into side of shroud. Seal both with modeling clay to prevent leaks.
6. Fill shroud with helium. Fill shroud slowly, allowing atmospheric air to escape either by leaving a gap where the shroud meets the ground surface or by providing a release valve on the side of the shroud.
7. Use the helium detector to monitor helium concentration within the shroud from the lowest hole drilled in the shroud (bottom of the shroud nearest where the sample tubing intersects the ground). Helium should be added until the environment inside the shroud has > 60% helium.
8. Purge the sample point through the sample tubing into a Tedlar bag using a hand held sampling pump. The purge rate should at least match the sample collection rate but not exceed 100 ml/min. Test the air in the Tedlar bag for helium using portable helium detector. If the point is free of leaks there should be very low helium in the purge air from the soil. The natural concentration of helium in the atmosphere is 0.00052% by volume and there are few if any natural sources of helium to soil gas.
9. If > 10% helium is noted in purge air, add more clay or other material to the seal the sample port and repeat the testing procedure. If the seal cannot be fixed, re-install sample point.

10. Monitor and record helium level in shroud before, during and after tracer test.
11. Monitor and record helium level in purge exhaust.
12. At successful completion of tracer test and sample point purging, the soil vapor sample can be collected (if the helium shroud must be removed prior to sample collection be mindful not disturb the sample tubing and any established seals).

VII. Data Recording and Management

Measurements will be recorded on the sample logs at the time of measurement with notations of the project name, sample date, sample start and finish time, sample location, and the helium concentrations in both the shroud and the purge air before, during, and after tracer testing. Any problems encountered should also be recorded in the field notes.

OPERATING PROCEDURE SUB-SLAB SOIL VAPOR SAMPLING

PROBE CONSTRUCTION

Initially, a 3/8-inch hole is drilled through the slab. A 1-inch hole is then advanced to the approximate depth to allow the compression fitting to fit flush with the floor surface.

Components of the soil vapor sampling probes will be made of either brass or stainless steel. Figure 1 shows the construction of the probe. A 1/4-inch tube is placed in a compression fitting, and a cap is placed on the top of the fitting. The fitting is then placed in the drilled hole, and anchored with fast-drying concrete patch.

SAMPLING

A plastic shroud is placed over the sample probe. Weather stripping is taped to the rim at the base of the shroud to provide a tight seal between the shroud and the floor. Additional equipment includes a helium canister, a low-flow air pump and a helium detector (Radiodetection Dielectric Technologies model HDP 9900 is used). New flexible tubing (Teflon) is used for the collection of each sample. Tubing and the valve which penetrate the shroud are securely sealed, to prevent any leakage.

Tubing is attached to the sample probe, using a compression fitting. To provide additional sealant around the probe, modeling clay is packed around the probe, after the tubing has been attached to it. An in-line valve is fitted near the probe, and a three-way valve is attached immediately before the summa canister for "shut in" testing (see below).

Initially, one port on the three-way valve is fitted with a pump and vacuum gage. The valve is closed at the probe and a vacuum pressure of 50 to 100 inches of water is applied to the tubing. The valve at the pump is then closed, and the vacuum pressure is monitored for 1 minute. If the pressure remains stable, the connections in the line are assumed to be tight. If there is a drop in pressure, the fittings are examined and adjusted as necessary, and the test is repeated.

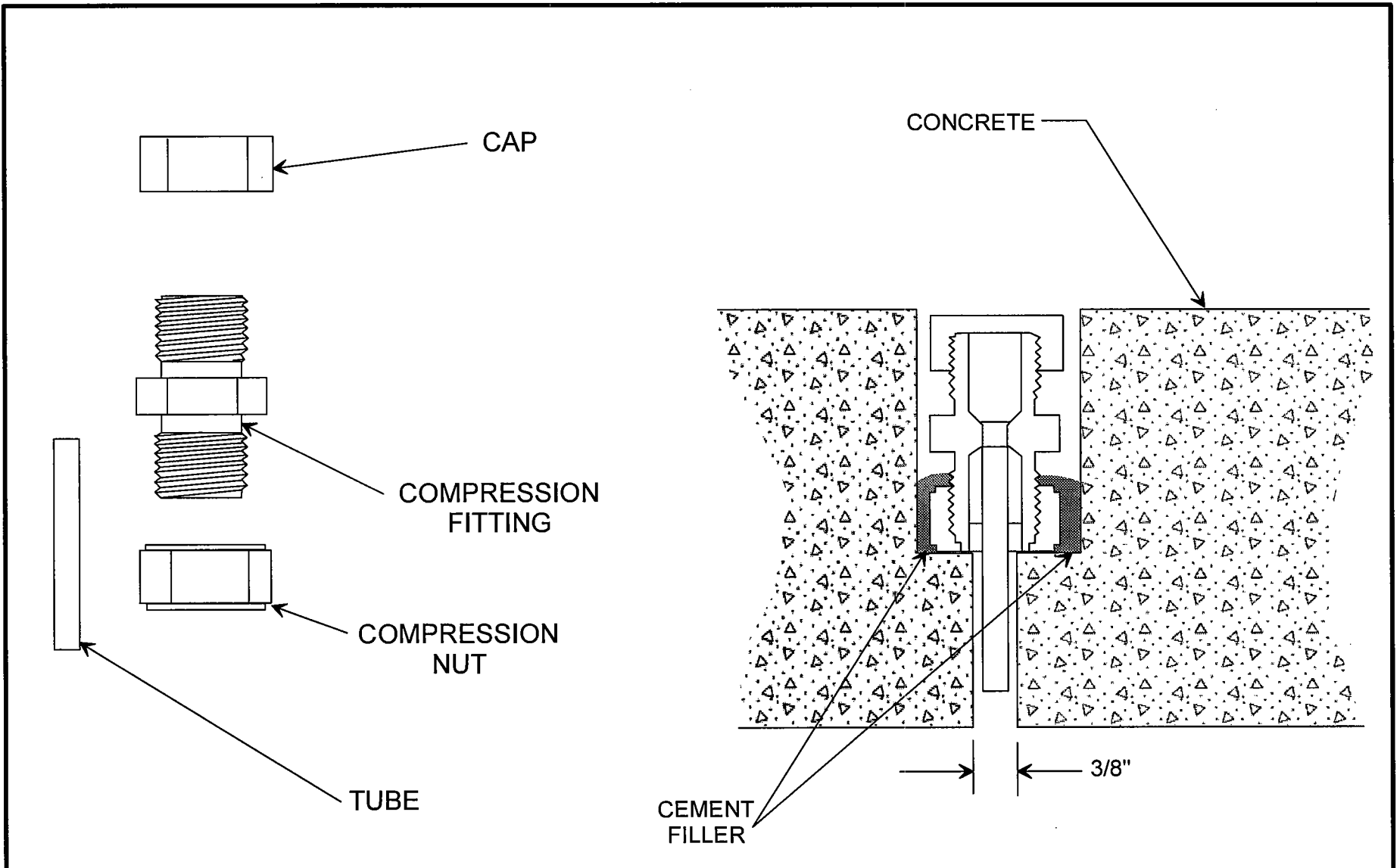
After the shut in test is completed, the probe itself is tested for leaks, using the shroud and helium. One port on the three-way valve is attached to the summa canister, along with a pressure gage and laboratory-supplied flow controller. At this point, the three-way valve is closed to the summa canister.

The pump is then attached to the second port on the three-way valve, and several liters of air are purged. Because the helium detector also detects methane and hydrogen, false readings can occur. Additionally, because it is only calibrated for helium, false background readings can be quite high. Consequently, prior to introducing hydrogen into the shroud, a reading is taken from the probe to approximate the background concentration.

After reading the background concentration, the shroud is flooded with helium. During this process, the valve at the top of the shroud is open, to allow air to escape. After filling the shroud, the valve is closed. Another reading with the helium detector is then taken from the probe. If there is no appreciable increase in helium levels, the sample is collected.

The valve on the canister is open enough to allow a low flow from the probe of 150 to 200 mL/min. An initial vacuum reading is taken at the summa canister. The canister remains attached until air is no longer flowing, and another vacuum reading is taken. The valve on the canister is then closed, and it is disconnected from the sample probe.

After sampling, the tubing is removed from the probe, and the cap is re-attached. Samples will be delivered directly to an approved laboratory. All samples will be delivered on the same day of collection, and will be tracked with chain-of-custody forms.



NOTE: ALL COMPONENTS ARE STAINLESS STEEL OR BRASS.



RIN Environmental Services, LLC

Surface Water Studies
Groundwater Studies
Site Investigations

4631 COUNTY ROAD A OREGON, WISCONSIN 53575 (608) 576-3001

MADISON-KIPP CORPORATION
MADISON, WISCONSIN
SUB-SLAB PROBE CONSTRUCTION

FIGURE
1

DRAWN BY	PROJ. No.	DATE	FILE
RN	09-101	14 JUL 11	PROBE DETAIL



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Corporation**

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

April 20, 2012

Ms. Leslie Bellais
102 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
102 S. Marquette Street, Madison, WI 53704

Dear Ms. Bellais:

On April 13, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs) below your home, located at 102 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

As previously presented in a letter to you dated April 3, 2012, the sub-slab samples collected on March 17 were submitted to the laboratory for analysis. However, the laboratory inadvertently cleaned the sample canister prior to analyzing the sample. ARCADIS personnel performed re-sampling of sub-slab vapor at your residence on April 13, 2012. This letter provides a summary of the sub-slab vapor laboratory results from the samples collected on April 13.

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:


- SSV1-1 and SSV2-1 - Sub-slab samples collected on April 13, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.

Based on the laboratory results (below), only PCE was detected in the sub-slab samples. PCE was not detected in the previously reported indoor air samples. The levels of PCE in the collected samples were below the sub-slab soil gas Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV-1-1	0.96	60
SSV-2-1	0.18	60

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Meunier', written in a cursive style.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

INDOOR AIR QUALITY BUILDING SURVEY

Date: 03/10/12 Project #: WI001238

Address: 102 Mangum Street
Madison, WI

Property Contact: Leslie Bell's

Phone: Home: (608) 244-7756 Work: () _____ Cell: () _____

Building Occupants: Children <13 _____ Children age 13-18 _____ Adults 1

Building Construction Characteristics: (Circle appropriate description)

Single Family Multiple Family School Commercial
 Ranch 2-Family Raised Ranch Duplex Colonial # of units _____
 Split Level Condominium Mobile Home Other (specify) _____

General Description of Building Construction Materials, especially new materials:

WOOD CONSTRUCTION, VINYL SIDING OVER ASPHALT

How many occupied stories does the building have? 1.5

Has the building been weatherized with any of the following? (Circle all that apply)

Insulation Storm Windows Energy-Efficient Windows
Other (specify) _____

What type of basement does the building have? (Circle all that apply)

Full basement Crawl space Slab-on-Grade Other (specify) _____

Basement Size _____ (ft³)

Surveyor's Initials: SK

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: _____

CONCRETE, CEMENT BLOCK

Moisture: Always Dry Always Wet Frequently Wet Sometimes Wet

Is a basement sump present? (Y/N) Is a sump pump present? (Y/N) (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

SOUTH

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan
Individual Air Conditioning Units Air-to-Air Heat Exchanger
Open windows Other (specify): _____

INTO ATTIC

Septic system? Yes / Yes (but not used) No

Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No

If yes, is it running? Yes / No

Surveyor's Initials: SBQ

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents		
Air fresheners		
Oven cleaners	✓	
Carpet/upholstery cleaners	✓	
Hairspray	✓	
Nail polish/polish remover	✓	
Bathroom cleaner	✓	
Appliance cleaner		
Furniture/floor polish	✓	
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes	✓	
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)	SUPERGLUE	
Scented trees, potpourri, etc.		
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)?
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)?

Was there any recent remodeling or painting done in the building (Y/N)?

Surveyor's Initials:

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)?

Are there any new upholstery, drapes or other textiles in the building (Y/N)?

Have the occupants ever noticed any unusual odors in the building? (Y/N)
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides (Y/N)? If so, what chemicals are used and how often are they applied:

LAWN APPLICATIONS (6/YEAR)

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials: MLG

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____

Prevailing wind speed and direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____

General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

TIM ALESSI

Name of Surveyor

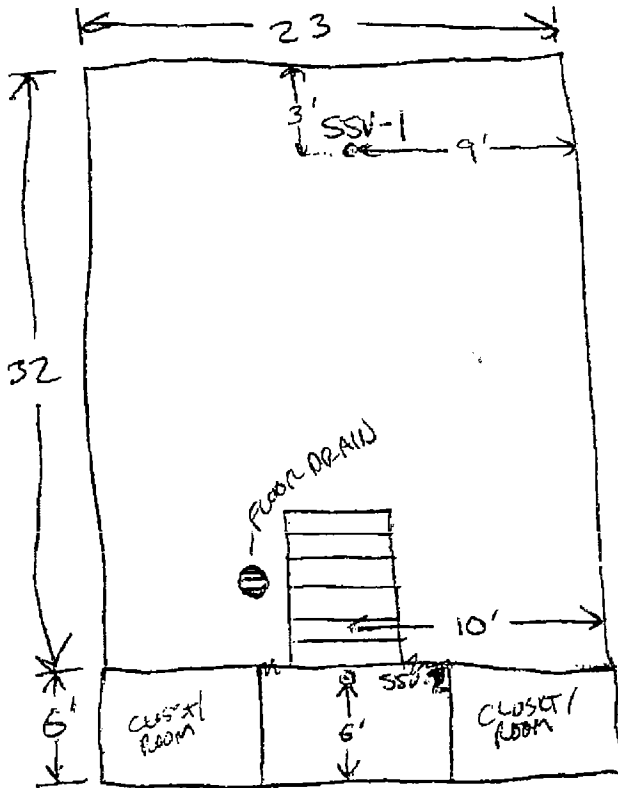


Signature

3/10/12

Date

Surveyor's Initials: TA



GLIDDEN ULTRA HICE
 WHITE LIGHTNING LINOLINUM / POOR CAULK
 FLOOR AND WALL PRIMER PLS
 ZIPPER BRUSH & BRISTLE WASH
 KILZ ORIGINAL PRIMER
 WD-40
 PAINT THINNER
 MINWAX WOOD HARDENER
 DUTCH BOY CEILING PAINT
 ED DWIGAN'S OIL PAINT (EXTREME)
 RAID ANT KILLER

SANI-DRY XP BASEMENT AIR SYSTEM DEHUMIDIFIER

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAB-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WJ001283-129	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	EAST SIDE OF BASEMENT	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/16/12	833	-29.5					
3/17/12	810	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	4369
Flow Controller ID:	40573
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

COLLECT DUP - 3	INITIAL VAC = -29.5
	FINAL VAC = -5
	CANISTER # 4369
	FLOWCONTROLLER # 40544

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WDOA283. 1, 9	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	KITCHEN COUNTER	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/16/12	8:35	-30					
3/17/12	1000	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	5562
Flow Controller ID:	40414
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-1-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON CRT	Tubing Information:	
Project #:	CNF001283-1.9	Miscellaneous Equipment:	
Samplers:	TA	Subcontractor:	
Sample Point Location:	SUB-SLAB	Equipment:	
Sampling Depth:	SUB-SLAB	Moisture Content:	
Time and Date of Installation:	—	Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
4/13/12	1347	2-30					
4/13/12	1645	-4.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	33993
Flow Controller ID:	400
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	94.5
Final Helium Shroud:	94.2
Tracer Test Passed:	<u>Yes</u> No
Notes:	0 ppm

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1½-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of ½-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSU-2-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WTC001283.1.9	Miscellaneous Equipment:	
Samplers:	TA	Subcontractor:	
Sample Point Location:	SUB-SLAB	Equipment:	
Sampling Depth:	SUB-SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
4/13/12	1530	-29.5					
4/13/12	1622	-3.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	22107
Flow Controller ID:	245
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	94.7
Final Helium Shroud:	93.8
Tracer Test Passed:	<u>Yes</u> No
Notes:	1350 ppm

General Observations/Notes:

DUP 5 COLLECTED	CANISTER ID#	32110
	FLOW CONTROL #	6713
	INITIAL "Hg =	2-30
	FINAL "Hg =	-2

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/2-inch tubing will have a volume of approximately 10 mL.



Air Toxics

4/1/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: W001283.0001.00009
Workorder #: 1203430A

Dear Mr. Rob Uppencamp

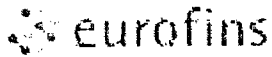
The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



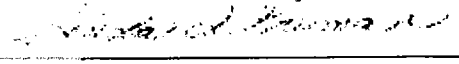
Air Toxics

WORK ORDER #: 1203430A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-1	Modified TO-15 SIM	5.5 "Hg	5 psi
02A	IAF-1	Modified TO-15 SIM	5.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203430A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
- N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-1

Lab ID#: 1203430A-01A

No Detections Were Found.

Client Sample ID: IAF-1

Lab ID#: 1203430A-02A

No Detections Were Found.



REPORT

Client Sample ID: IAB-1

Lab ID#: 1203430A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032213sim	Date of Collection:	3/16/12 8:33:00 AM
Dil. Factor:	1.64	Date of Analysis:	3/22/12 06:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: IAF-1

Lab ID#: 1203430A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032214sim	Date of Collection: 3/16/12 8:35:00 AM
Dil. Factor:	1.64	Date of Analysis: 3/22/12 07:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203430A-03A

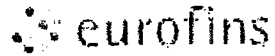
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032206sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130



8/16/12

Client Sample ID: CCV
Lab ID#: 1203430A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032202slm	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	102
Trichloroethene	95
Tetrachloroethene	88
trans-1,2-Dichloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203430A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	94
cis-1,2-Dichloroethene	102
Trichloroethene	90
Tetrachloroethene	87
trans-1,2-Dichloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130



10000000

Client Sample ID: LCSD

Lab ID#: 1203430A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032204slm	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	102
Trichloroethene	88
Tetrachloroethene	86
trans-1,2-Dichloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	104	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and International laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE HAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNINE.TRASK@ARCADIS.US.COM
 Address 160 N. JEFFERSON ST. STE 20 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:	Turn Around Time:	Lab Use Only
	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by Date Pressurization Gas. N ₂ He
P.O. #		
Project # <u>W1001285.0001.00009</u>		
Project Name <u>MADISON KIPP</u>		

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01A</u>	<u>IAB-1</u>	<u>4369</u>	<u>3/16/12</u>	<u>833</u>	<u>TO-15</u>	<u>-21.5</u>	<u>-5.0</u>		
<u>02A</u>	<u>IAF-1</u>	<u>5562</u>	<u>3/16/12</u>	<u>835</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-5.0</u>		
	<u>SSV-1-1</u>	<u>440</u>	<u>3/17/12</u>	<u>925</u>	<u>TO-15</u>	<u>-29.5</u>	<u>-3.5</u>		
	<u>SSV-2-1</u>	<u>25249</u>	<u>3/17/12</u>	<u>830</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-4.0</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/19/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/20/12 0920</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:
 ONLY REPORT...
 PCE
 TCE
 VINYL CHLORIDE
 CIS-1,2-DCE
 TRANS-1,2-DCE

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>[Signature]</u>		<u>114</u>	<u>Good</u>	<u>Yes</u> No None	<u>1008430</u>



Air Toxics

4/20/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1204335

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 4/17/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager

20120420 10:41:11 AM

20120420 10:41:11 AM

20120420 10:41:11 AM

20120420 10:41:11 AM

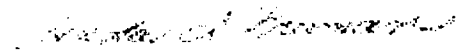
20120420

WORK ORDER #: 1204335

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00012
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	04/17/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/20/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SSV-1-1	Modified TO-15	3.5 "Hg	5 psi
02A	SSV-2-1	Modified TO-15	2.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/20/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
 This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1204335**

Two 6 Liter Summa Canister samples were received on April 17, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

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

Client Sample ID: SSV-1-1

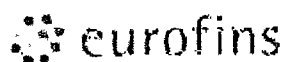
Lab ID#: 1204335-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.15	0.96	1.0	8.5

Client Sample ID: SSV-2-1

Lab ID#: 1204335-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.15	0.18	0.99	1.2



A.7 Toxics

Client Sample ID: SSV-1-1

Lab ID#: 1204335-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041806	Date of Collection: 4/13/12 4:45:00 PM
Dil. Factor:	1.52	Date of Analysis: 4/18/12 05:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.39	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Trichloroethene	0.15	Not Detected	0.82	Not Detected
Tetrachloroethene	0.15	0.96	1.0	6.5

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: SSV-2-1

Lab ID#: 1204335-02A

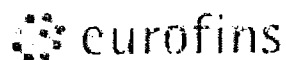
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041807	Date of Collection:	4/13/12 4:22:00 PM
Dil. Factor:	1.46	Date of Analysis:	4/18/12 05:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.37	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Trichloroethene	0.15	Not Detected	0.78	Not Detected
Tetrachloroethene	0.15	0.18	0.99	1.2

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1204335-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/18/12 04:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.28	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1204335-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/18/12 01:21 PM

Compound	%Recovery
Vinyl Chloride	100
trans-1,2-Dichloroethene	93
cis-1,2-Dichloroethene	94
Trichloroethene	98
Tetrachloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1204335-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/18/12 02:15 PM

Compound	%Recovery
Vinyl Chloride	117
trans-1,2-Dichloroethene	121
cis-1,2-Dichloroethene	109
Trichloroethene	107
Tetrachloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1204335-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041804	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/18/12 03:05 PM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	117
cis-1,2-Dichloroethene	105
Trichloroethene	106
Tetrachloroethene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ACCADIS Email: TIM.ALESSI@ACCADIS.COM
 Address: 26 N. WISCONSIN ST., STE 400 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7605

Project Info:	Turn Around Time:	Lab Use Only
	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by: Date: Pressurization Gas: N ₂ He
P.O. #		
Project # <u>WJ001283.0001.00009</u>		
Project Name <u>MADSON KIPP</u>		

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01A	SSV-1-1	33993	4/13/12	1645	TO-15	-7.30	-4.5		
02A	SSV-2-1	22107	4/13/12	1622	TO-15	-29.5	-3.5		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>4/16/12 1600</u>	Received by: (signature) <u>B. Whitehouse</u> Date/Time <u>4/17/12 0845</u>	Notes: ONLY REPORT... PCE TCE VWYL CHLORIDE CIS-1,2-DCE TRANS-1,2-DCE
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name: <u>Fedex</u>	Air Bill #	Temp (°C) <u>N/A</u>	Condition <u>Good</u>	Custody Seals Intact? <u>None</u>	Work Order # <u>1204835</u>



April 3, 2012

Ms. Leslie Bellais
102 S. Marquette Street
Madison, Wisconsin 53704

RE: Results of Air Testing
102 S. Marquette Street, Madison, WI 53704

Dear Ms. Bellais:

On March 16 and 17, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 102 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-1 and SSV2-1 - Sub-slab samples collected on March 17, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-1 - Indoor air basement sample collected on March 16-17, 2012.
- IAF-1 - Indoor air first floor sample collected on March 16-17, 2012.

Based on the laboratory results (below), PCE was not detected in the indoor air samples. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
IAB-3	Not detected	6
IAF-3	Not detected	6

The sub-slab samples were submitted to the laboratory for analysis. However, the laboratory inadvertently cleaned the sample canister prior to analyzing the sample. ARCADIS will contact you to re-schedule the sub-slab sampling at your earliest convenience.

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Meunier', written in a cursive style.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

INDOOR AIR QUALITY BUILDING SURVEY

Date: 03/10/12 Project #: WI001238

Address: 102 Mangnet Street
Madison WI

Property Contact: Leslie Bella's

Phone: Home: (608) 249-7756 Work: () _____ Cell: () _____

Building Occupants: Children <13 _____ Children age 13-18 _____ Adults 1

Building Construction Characteristics: (Circle appropriate description)

- Single Family
- Multiple Family
- School
- Commercial
- Ranch 2-Family
- Raised Ranch Duplex
- Colonial # of units _____
- Split Level Condominium
- Mobile Home
- Other (specify) _____

General Description of Building Construction Materials, especially new materials:

WOOD CONSTRUCTION, VINYL SIDING OVER ASPHALT

How many occupied stories does the building have? 1.5

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation
- Storm Windows
- Energy-Efficient Windows
- Other (specify) _____

What type of basement does the building have? (Circle all that apply)

- Full basement
- Crawlspace
- Slab-on-Grade
- Other (specify) _____

Basement Size _____ (ft²)

Surveyor's Initials: [Signature]

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: _____

CONCRETE, CEMENT BLOCK

Moisire: Always Dry Always Wet Frequently Wet Sometimes Wet

Is a basement sump present? (Y~~N~~) Is a sump pump present? (Y~~N~~) (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

SOUTH

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove

Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____

Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan

INTO ATTIC

Individual Air Conditioning Units Air-to-Air Heat Exchanger

Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) No

Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No

If yes, is it running? Yes / No

Surveyor's Initials: EBG

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents		
Air fresheners		
Oven cleaners	✓	
Carpet/upholstery cleaners	✓	
Hairspray	✓	
Nail polish/polish remover	✓	
Bathroom cleaner	✓	
Appliance cleaner		
Furniture/floor polish	✓	
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes	✓	
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)	SURPLUSE	
Scented trees, potpourri, etc.		
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)?
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)?

Was there any recent remodeling or painting done in the building (Y/N)?

Surveyor's Initials: mbd

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)?

Are there any new upholstery, drapes or other textiles in the building (Y/N)?

Have the occupants ever noticed any unusual odors in the building? (Y/N)?
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)?
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides (Y/N)? If so, what chemicals are used and how often are they applied:

LAWN APPLICATIONS (6/YEAR)

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials:

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____

Prevailing wind speed and direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____

General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

TIM ALESSI

Name of Surveyor

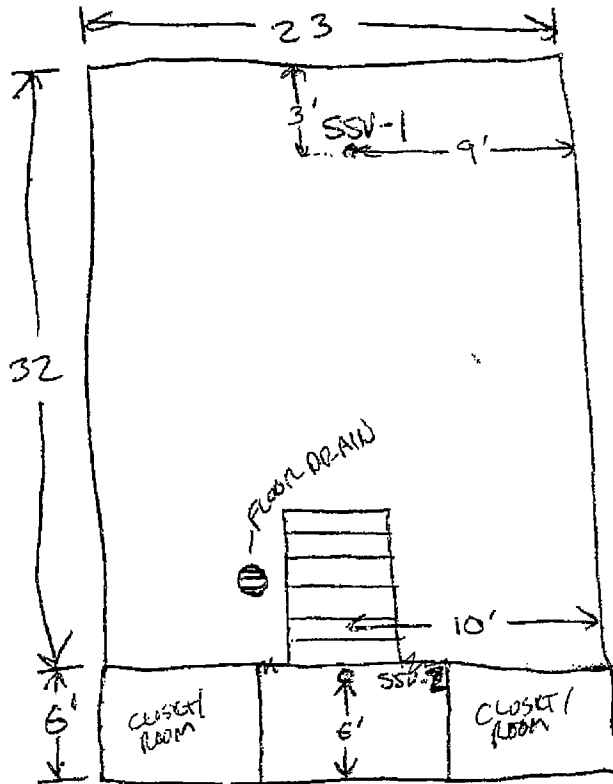
[Signature]

Signature

3/10/12

Date

Surveyor's Initials: TA



CLIPPER ULTRA HICE
 WHITE LIGHTNING LINOCOR / POOR CALK
 FLOOR AND WALL PRIMER PLUS
 ZIPPER BRUSH & BRISTLE WASH
 KILZ ORIGINAL PRIMER
 WD-40
 PAINT THINNER
 MUYA WOOD HARDENER
 DUTCH BOY CEILING PAINT
 ED DWIGAN'S OIL PAINT (EXTRACT)
 RAID ANT KILLER

SANI-DRY XP BASEMENT AIR SYSTEM DEHUMIDIFIER

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAB-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WJ001283-129	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	EAST SIDE OF BASEMENT	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/6/12	833	-29.5					
3/7/12	810	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 27L (6L)
Canister ID:	4369
Flow Controller ID:	40573
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

COLLECT DUP - 3	INITIAL VAC = -29.5
	FINAL VAC = -5
	CANISTER # 4361
	FLOW CONTROLLER # 40544

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WID00293.1.9	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	KITCHEN COUNTER	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/16/12	835	-30					
3/17/12	1000	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L 6L
Canister ID:	5562
Flow Controller ID:	40414
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-1-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WIC01283.1.9	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	EAST SIDE BASEMENT	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/17/12	925	-29.5					
3/17/12	1004	-3.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L 6L
Canister ID:	440
Flow Controller ID:	40840
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	85.4
Final Helium Shroud:	80.1
Tracer Test Passed:	Yes No
Notes:	8950 ppm

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-2-1
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.1.9	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	WEST SIDE BASEMENT	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/17/12	0300	-30					
3/17/12	1000	-4					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (Circle one):	1L 2.7L 6L
Canister ID:	25249
Flow Controller ID:	FC00527
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.1
Final Helium Shroud:	83.2
Tracer Test Passed:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Notes:	25 ppm

General Observations/Notes:

COLLECT DUP-4. INITIAL VAC = -30
FINAL VAC = -4.5
CANISTER # 12077
Flow control # 6906

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 3/4-inch tubing will have a volume of approximately 10 mL.



Air Toxics

4/1/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203430A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager

Air Toxics Limited is a 100% owned subsidiary of Eurofins

Eurofins Air Toxics, Inc.

140 West Main Street, Suite B
Folsom, CA 95630

T : 916-985-1000
F : 916-985-1000
www.airtoxics.com



Air Toxics

WORK ORDER #: 1203430A

Work Order Summary

CLIENT: Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800
Indianapolis, IN 46204

BILL TO: Accounts Payable
Arcadis U.S., Inc.
630 Plaza Drive
Suite 600
Highlands Ranch, CO 80129

PHONE: 317.236.5207

P.O. # WI001283.0001.00009

FAX: 317-231-6514

PROJECT # WI001283.0001.00009 MADISON KIPP

DATE RECEIVED: 03/20/2012

CONTACT: Ausha Scott

DATE COMPLETED: 04/01/2012

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-1	Modified TO-15 SIM	5.5 "Hg	5 psi
02A	IAF-1	Modified TO-15 SIM	5.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:

Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203430A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-1

Lab ID#: 1203430A-01A
No Detections Were Found.

Client Sample ID: IAF-1

Lab ID#: 1203430A-02A
No Detections Were Found.



Air Toxics

Client Sample ID: IAB-1

Lab ID#: 1203430A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032213sim	Date of Collection: 3/16/12 8:33:00 AM
Dil. Factor:	1.64	Date of Analysis: 3/22/12 06:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: IAF-1

Lab ID#: 1203430A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032214slm	Date of Collection:	3/16/12 8:35:00 AM	
Dil. Factor:	1.64	Date of Analysis:	3/22/12 07:16 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203430A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032206sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203430A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	102
Trichloroethene	95
Tetrachloroethene	88
trans-1,2-Dichloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203430A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	94
cis-1,2-Dichloroethene	102
Trichloroethene	90
Tetrachloroethene	87
trans-1,2-Dichloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203430A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	102
Trichloroethene	88
Tetrachloroethene	86
trans-1,2-Dichloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	104	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNINE.TRASK@ARCADIS-US.COM
 Address 120 N. JEFFERSON ST. STE 40 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:	Turn Around Time:	<small>Lab. User Only</small>
P.O. # _____	<input checked="" type="checkbox"/> Normal	Pressurized by: _____
Project # <u>WI001285.0001.00009</u>	<input type="checkbox"/> Rush	Date: _____
Project Name <u>MADISON KIPP</u>	<small>specify</small>	Pressurization Gas: _____
		N ₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01A</u>	<u>IAB-1</u>	<u>4369</u>	<u>3/16/12</u>	<u>833</u>	<u>TO-15</u>	<u>-29.5</u>	<u>-5.0</u>		
<u>02A</u>	<u>IAF-1</u>	<u>5562</u>	<u>3/16/12</u>	<u>835</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-5.0</u>		
	<u>SSV-1-1</u>	<u>440</u>	<u>3/17/12</u>	<u>925</u>	<u>TO-15</u>	<u>-29.5</u>	<u>-3.5</u>		
	<u>SSV-2-1</u>	<u>25249</u>	<u>3/17/12</u>	<u>830</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-4.0</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/16/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/20/12 0920</u>	Notes: ONLY REPORT... PCE TCE VINYL CHLORIDE CIS-1,2-DCE TRANS-1,2-DCE
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>[Signature]</u>	Air Bill # _____	Temp (°C) <u>14</u>	Condition <u>Good</u>	Custody Seals Intact? <u>Yes</u> No None	Work Order # <u>1208430</u>
	9					



**Madison-Kipp
Corporation**

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

April 2, 2012

Mr. Eric Bott
110 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
110 S. Marquette Street, Madison, WI 53704

Dear Mr. Bott:

On March 15 through 17, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 110 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-3 and SSV2-3 - Sub-slab samples collected on March 16-17, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-3 - Indoor air basement sample collected on March 15-16, 2012.
- IAF-3 - Indoor air first floor sample collected on March 15-16, 2012.

Based on the laboratory results (below), only PCE was detected in these samples. The levels of PCE in the collected samples were below the sub-slab soil gas and indoor air Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-3	1.5	60
SSV2-3	0.28	60
IAB-3	0.060	6
IAF-3	0.060	6

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Meunier', written in a cursive style.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

INDOOR AIR QUALITY BUILDING SURVEY

Date: 3/8/12 Project #: WI001283.1.4

Address: 110 MARQUETTE ST
MADISON WI

Property Contact: ERIC BOTT

Phone: Home: (920) 579-0829 Work: () _____ Cell: () _____

Building Occupants: Children <13 1 Children age 13-18 _____ Adults 2

Building Construction Characteristics: (Circle appropriate description)

- Single Family
- Multiple Family
- School
- Commercial
- Ranch 2-Family
- Raised Ranch Duplex
- Colonial # of units _____
- Split Level Condominium
- Mobile Home
- Other (specify) _____

General Description of Building Construction Materials, especially new materials:

WOOD CONSTRUCTION / WOOD SIDING

How many occupied stories does the building have? 1

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation
- Storm Windows
- Energy-Efficient Windows
- Other (specify) _____

What type of basement does the building have? (Circle all that apply)

- Full basement
- Crawlspace
- Slab-on-Grade
- Other (specify) _____

Basement Size 715 (ft²)

Surveyor's Initials: EMC

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: _____

CONCRETE FLOOR AND WALLS

Moisure: Always Dry Always Wet Frequently Wet Sometimes Wet SPRING MELT

Is a basement sump present? (Y/N) N Is a sump pump present? (Y/N) N (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan
Individual Air Conditioning Units Air-to-Air Heat Exchanger
Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) No

Irrigation/private well? Yes / Yes (but not used) No

Existing subsurface depressurization (radon) system in place? Yes No

If yes, is it running? Yes / No

Surveyor's Initials: JM

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents	✓	
Air fresheners		
Oven cleaners		
Carpet/upholstery cleaners		
Hairspray		
Nail polish/polish remover		
Bathroom cleaner	✓	
Appliance cleaner		
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes		
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)		
Scented trees, potpourri, etc.		
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)?
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)?

Was there any recent remodeling or painting done in the building (Y/N)?

Surveyor's Initials:

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)?

Are there any new upholstery, drapes or other textiles in the building (Y/N)?

Have the occupants ever noticed any unusual odors in the building? (Y/N)?

If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

SMELL OF BURNING RUBBER NEAR STAIRS TO
BASEMENT

Any known spills of a chemical immediately outside or inside the building? (Y/N)?

If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides (Y/N)? If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials: EDH

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____

Prevailing wind speed and direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____

General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

TIM ALESSI


Name of Surveyor

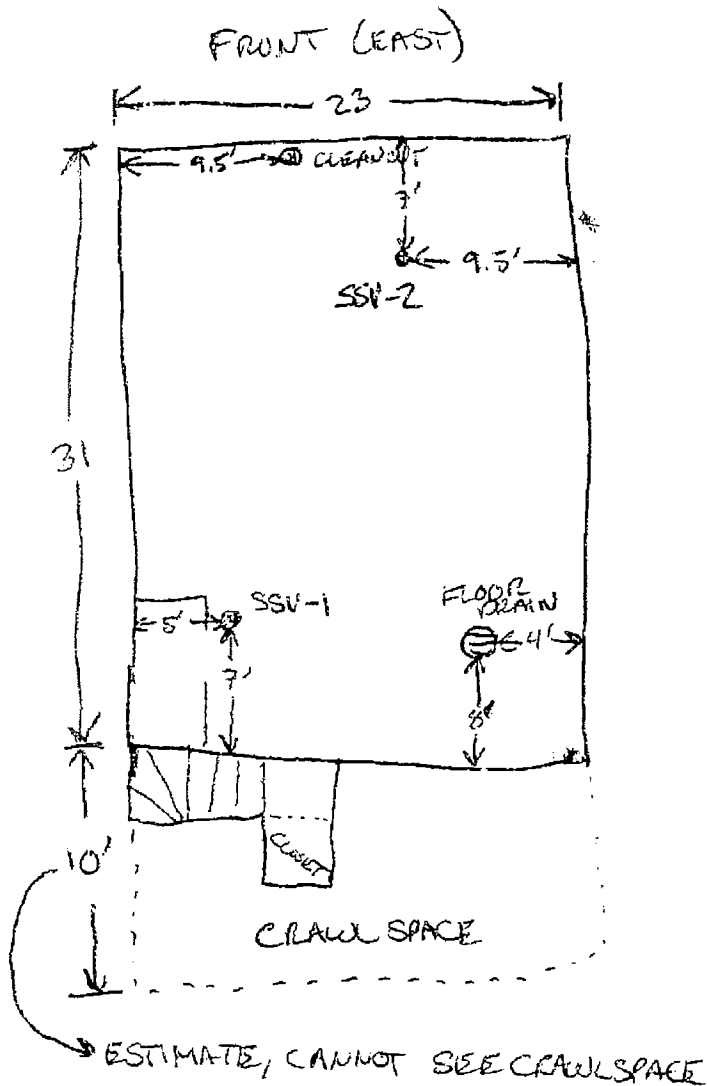


Signature

3/8/12

Date

Surveyor's Initials: 



LWD-40

PETROLEUM DISTILLATES

DUTCH BOY LATEX

(ZERO VOC) VINYL POLYMER
ACRYLIC POLYMER

URETHANE WOOD FILLER (WATERBASE)

DUTCH BOY DIMENSIONAL LATEX

VINYL POLYMER

ACRYLIC POLYMER

Z-(2-BUTOXYETHOXY)-ETHANOL

ETHYLENE GLYCOL

SUNNYSIDE PAINT THINNER

MAX VOC 772 g/L

SHERWIN WILLIAMS ENAMEL

ACRYLIC POLYMER

SHEETROCK JOINT COMPOUND

ETHYLENE VINYL ACETATE POLYMER

BLEACH

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-1-3
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001293.1.9	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	WEST SIDE OF DISEMENT	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/17/12	1320	-29					
3/17/12	1357	-4					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>5L</u>
Canister ID:	31146
Flow Controller ID:	20996
Notes:	

Tracer Test information (if applicable):

Initial Helium Shroud:	90.8
Final Helium Shroud:	83.7
Tracer Test Passed:	<u>Yes</u> No
Notes:	Open

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-2-3
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.0001.00009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	WEST	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/16/12	1116	-29.5					
3/16/12	1211	-3					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	33984 33984
Flow Controller ID:	FC00838
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.1
Final Helium Shroud:	82.3
Tracer Test Passed:	<u>Yes</u> No
Notes:	2500 ppm

General Observations/Notes:

WPH PID = 3400 ppb

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.



Air Toxics

WORK ORDER #: 1203428B

Work Order Summary

CLIENT: Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800
Indianapolis, IN 46204

BILL TO: Accounts Payable
Arcadis U.S., Inc.
630 Plaza Drive
Suite 600
Highlands Ranch, CO 80129

PHONE: 317.236.5207

P.O. # WI001283.0001.00009

FAX: 317-231-6514

PROJECT # WI001283.0001.00009 MADISON KIPP

DATE RECEIVED: 03/20/2012

CONTACT: Ausha Scott

DATE COMPLETED: 04/01/2012

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-3	Modified TO-15	5.0 "Hg	5 psi
04A	SSV-2-3	Modified TO-15	5.5 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203428B**

Two 6 Liter Summa Canister samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

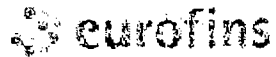
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

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

Client Sample ID: SSV-1-3

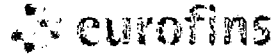
Lab ID#: 1203428B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.5	1.1	10

Client Sample ID: SSV-2-3

Lab ID#: 1203428B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.28	1.1	1.9



Air Toxics

Client Sample ID: SSV-1-3

Lab ID#: 1203428B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032217	Date of Collection:	3/17/12 1:20:00 PM
Dil. Factor:	1.61	Date of Analysis:	3/22/12 10:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.5	1.1	10

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SSV-2-3

Lab ID#: 1203428B-04A

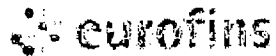
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032218	Date of Collection:	3/16/12 11:16:00 AM
Dil. Factor:	1.64	Date of Analysis:	3/22/12 10:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
Tetrachloroethene	0.16	0.28	1.1	1.9

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	111	70-130



Air TOXICS

Client Sample ID: Lab Blank

Lab ID#: 1203428B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203428B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	98
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	108
Trichloroethene	105
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203428B-07A

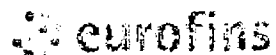
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	109
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	112
Trichloroethene	98
Tetrachloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	111	70-130



Air Tests

Client Sample ID: LCSD

Lab ID#: 1203428B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	103
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	113
Trichloroethene	96
Tetrachloroethene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
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Page 1 of 1

Project Manager JENNIFER TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNIFER.TRASK@ARCADIS.COM
 Address 123 N. JEFFERSON ST, SE400 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info: P.O. # _____ Project # <u>WJTX283.0001.00009</u> Project Name <u>MADISON KIPP</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Lab Use Only: Pressurized by _____ Date: _____ Pressurization Gas: <u>N₂</u> <u>He</u>
--	--	--

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
	IAB-3	431	3/15/12	1006	TO-15	-300	-6.5		
	IAF-3	R-18	3/15/12	1004	TO-15	-29.0	-5.0		
<u>03A</u>	SSV-1-3	3146	3/17/12	1320	TO-15	-29.0	-4.0		
<u>04A</u>	SSV-2-3	33984	3/16/12	1116	TO-15	-29.5	-5.0		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/14/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/22/12 0920</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>[Signature]</u>	Air Bill # _____	Temp (°C) <u>N/A</u>	Condition <u>Good</u>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	Work Order # <u>1203460</u>
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Air Toxics

4/1/2012

Mr. Rob Uppencamp

Arcadis U.S., Inc.

251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP

Project #: WI001283.0001.00009

Workorder #: 1203428A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott

Project Manager



Air Toxics

WORK ORDER #: 1203428A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-3	Modified TO-15 SIM	5.0 "Hg	5 psi
02A	IAF-3	Modified TO-15 SIM	5.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:

Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203428A**

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-3

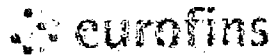
Lab ID#: 1203428A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.032	0.060	0.22	0.41

Client Sample ID: IAF-3

Lab ID#: 1203428A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.033	0.060	0.22	0.41



Air Toxics

Client Sample ID: IAB-3

Lab ID#: 1203428A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032219sim	Date of Collection: 3/15/12 10:06:00 AM
Dil. Factor:	1.61	Date of Analysis: 3/22/12 08:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.060	0.22	0.41
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Air Text05

Client Sample ID: IAF-3

Lab ID#: 1203428A-02A

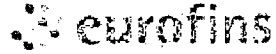
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032220sim	Date of Collection:	3/15/12 10:04:00 AM
Dil. Factor:	1.64	Date of Analysis:	3/22/12 09:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.060	0.22	0.41
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130



Air toxics

Client Sample ID: Lab Blank

Lab ID#: 1203428A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032207sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/12 11:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203428A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032202slm	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 08:39 AM

Compound	%Recovery
Vinyl Chloride	80
cis-1,2-Dichloroethene	81
Trichloroethene	83
Tetrachloroethene	85
trans-1,2-Dichloroethene	83

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130



air testing

Client Sample ID: LCS

Lab ID#: 1203428A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 09:20 AM

Compound	%Recovery
Vinyl Chloride	80
cis-1,2-Dichloroethene	80
Trichloroethene	80
Tetrachloroethene	82
trans-1,2-Dichloroethene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203428A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 09:57 AM

Compound	%Recovery
Vinyl Chloride	81
cis-1,2-Dichloroethene	80
Trichloroethene	81
Tetrachloroethene	82
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNIFER TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNIFER.TRASK@ARCADIS.COM
 Address 1200 JEFFERSON ST, SE 4th City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:
 P.O. # _____
 Project # WJDCR283.0001.00009
 Project Name MADISON KIPP

Turn Around Time:
 Normal
 Rush
capacity
Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He:

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (gal)
<u>01A</u>	<u>IAB-3</u>	<u>431</u>	<u>3/15/12</u>	<u>1006</u>	<u>TO-15</u>	<u>-300</u>	<u>-6.5</u>		
<u>02A</u>	<u>IAF-3</u>	<u>R-18</u>	<u>3/15/12</u>	<u>1004</u>	<u>TO-15</u>	<u>-29.0</u>	<u>-5.0</u>		
<u>03</u>	<u>SSV-1-3</u>	<u>3146</u>	<u>3/17/12</u>	<u>1320</u>	<u>TO-15</u>	<u>-29.0</u>	<u>-4.0</u>		
	<u>SSV-2-3</u>	<u>33984</u>	<u>3/16/12</u>	<u>1116</u>	<u>TO-15</u>	<u>-29.5</u>	<u>-3.0</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/19/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3.20.12 0920</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>[Signature]</u>		<u>NA</u>	<u>Good</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	<u>1803430</u>



April 17, 2012

Mr. Stephen Josheff
114 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
114 S. Marquette Street, Madison, WI 53704

Dear Mr. Josheff:

On March 28 and 29, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 114 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-4 and SSV2-4 - Sub-slab samples collected on March 29, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-4 - Indoor air basement sample collected on March 28-29, 2012.
- IAF-4 - Indoor air first floor sample collected on March 28-29, 2012.

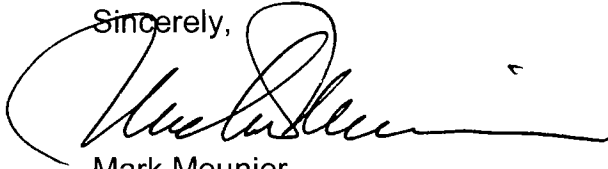
Based on the laboratory results (below), PCE was detected in the sub-slab and indoor air samples. The levels of PCE in the collected samples were below the sub-slab soil gas and indoor air Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-4	1.7	60
SSV2-4	0.50	60
IAB-4	0.084	6
IAF-4	0.092	6

The compound TCE was also detected in the sub-slab sample SSV-2-4 at a level of 0.27 ppbv. The detected concentration is below the WDNR Residential Action Level of 3.8 ppbv. TCE was not detected in the other samples.

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Meunier', with a large, stylized initial 'M'.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

INDOOR AIR QUALITY BUILDING SURVEY

Date: 3/20/12 Project #: WI001283.1.9

Address: 114 S. MARQUETTE ST.
MADISON WI

Property Contact: STEPHEN JOSHEFF

Phone: Home: () _____ Work: () _____ Cell: () _____

Building Occupants: Children <13 _____ Children age 13-18 _____ Adults 2

Building Construction Characteristics: (Circle appropriate description)

Single Family Multiple Family School Commercial
 Ranch 2-Family Raised Ranch Duplex Colonial # of units _____
 Split Level Condominium Mobile Home Other (specify) _____

General Description of Building Construction Materials, especially new materials:

WOOD CONSTRUCTION

How many occupied stories does the building have? 2

Has the building been weatherized with any of the following? (Circle all that apply)

Insulation Storm Windows Energy-Efficient Windows
Other (specify) _____

What type of basement does the building have? (Circle all that apply)

Full basement Crawlspace Slab-on-Grade Other (specify) _____

Basement Size ~700 (ft²)

Surveyor's Initials: [Signature]

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: _____

CONCRETE WALLS & FLOOR

Moisure: Always Dry Always Wet Frequently Wet Sometimes Wet

Is a basement sump present? (Y/N) Is a sump pump present? (Y/N) (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan

Individual Air Conditioning Units Air-to-Air Heat Exchanger

Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) (No)

Irrigation/private well? Yes / Yes (but not used) (No)

Existing subsurface depressurization (radon) system in place? Yes (No)

If yes, is it running? Yes / No

Surveyor's Initials: _____

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents	✓	
Air fresheners		
Oven cleaners		
Carpet/upholstery cleaners		
Hairspray		
Nail polish/polish remover		
Bathroom cleaner		
Appliance cleaner		
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes		
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)		
Scented trees, potpourri, etc.		
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)? Y N
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)? Y N

Does the building have an attached garage (Y/N)? Y N If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)? Y N

Was there any recent remodeling or painting done in the building (Y/N)? Y N

Surveyor's Initials:

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)

Are there any new upholstery, drapes or other textiles in the building (Y/N)

Have the occupants ever noticed any unusual odors in the building? (Y/N)
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides (Y/N) If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials: SM

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____

Prevailing wind speed and direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____

General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

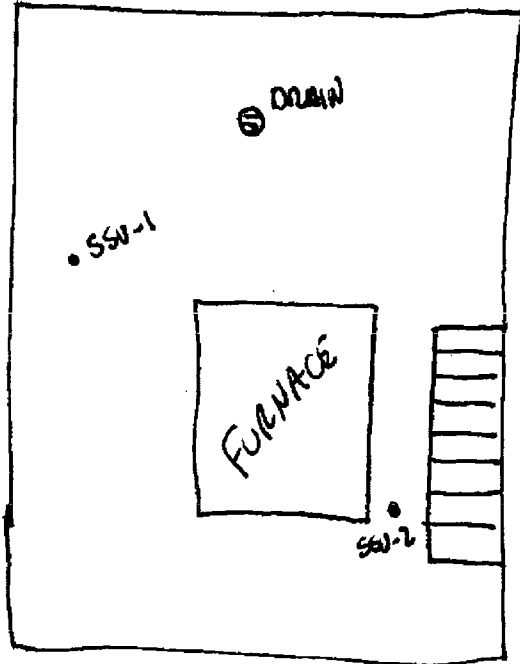
Name of Surveyor

Signature

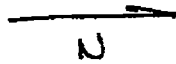
Date

Surveyor's Initials: EWL

114 S. MARQUETTE



MARQUETTE ST.



Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAB-4
Client:	Madison Kipp	Boring Equipment:	NA
Project:	Residential Sampling	Sealant:	NA
Location:	Madison, 114 S. Marguerite	Tubing Information:	NA
Project #:	WT 001283	Miscellaneous Equipment:	NA
Samplers:	Bray	Subcontractor:	NA
Sample Point Location:	basement	Equipment:	NA
Sampling Depth:	NA	Moisture Content:	NA
Time and Date of Installation:	NA	Approximate Purge Volume:	NA

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/28/12	0810	-29					
3/29/12	0945	0					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L 6L
Canister ID:	
Flow Controller ID:	
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Mr. Josephs did not answer the door at the 8am appointment time.

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-4
Client:	Madison Kipp	Boring Equipment:	NA
Project:	Residential Sampling	Sealant:	↓
Location:	Madison, 114 S. Marquette	Tubing Information:	
Project #:	W1001283	Miscellaneous Equipment:	
Samplers:	Bray	Subcontractor:	
Sample Point Location:	main floor	Equipment:	
Sampling Depth:	NA	Moisture Content:	
Time and Date of Installation:	NA	Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/28/12	0800	-29					
3/29/12	1050	-2					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	
Flow Controller ID:	
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	NA	
Final Helium Shroud:		
Tracer Test Passed:	Yes	No
Notes:		

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-1-4
Client:	Madison Kipp	Boring Equipment:	
Project:	Residential Sub-Slab	Sealant:	
Location:	Madison, 114 S. Marquette	Tubing Information:	PTFE
Project #:	WE001283	Miscellaneous Equipment:	He detector
Samplers:	Bray	Subcontractor:	
Sample Point Location:	east wall	Equipment:	
Sampling Depth:	~ 4 inches	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	500 mL

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
5/29	1020	-30					
	1040	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L	2.7L	<input checked="" type="radio"/> 6L
Canister ID:			
Flow Controller ID:			
Notes:			

Tracer Test Information (if applicable):

Initial Helium Shroud:	96%
Final Helium Shroud:	96%
Tracer Test Passed:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Notes:	Open in sample train

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-2-4
Client:	Madison Kipp	Boring Equipment:	NA
Project:	Residential Sub-Slab	Sealant:	NA
Location:	Madison, 114 S. Marquette	Tubing Information:	PTFE
Project #:	WTC00283	Miscellaneous Equipment:	He detector
Samplers:	Bray	Subcontractor:	NA
Sample Point Location:	near stairs	Equipment:	NA
Sampling Depth:	~4 inches	Moisture Content:	NA
Time and Date of Installation:		Approximate Purge Volume:	500 mL

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/29	1020	-30					
	1045	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	
Flow Controller ID:	
Notes:	

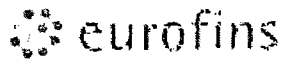
Tracer Test Information (if applicable):

Initial Helium Shroud:	98%
Final Helium Shroud:	95%
Tracer Test Passed:	(Yes) No
Notes:	0 ppm in sample train

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling Interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.



Air Toxics

4/13/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name:
Project #:
Workorder #: 1204018A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 4/2/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager




Air Toxics

WORK ORDER #: 1204018A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	
DATE RECEIVED:	04/02/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/13/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT YAC/PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-4	Modified TO-15 SIM	0.5 "Hg	5 psi
02A	IAF-4	Modified TO-15 SIM	3.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 

DATE: 04/13/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1204018A**

Two 6 Liter Summa Canister (SIM Certified) samples were received on April 02, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-4

Lab ID#: 1204018A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.027	0.084	0.18	0.57

Client Sample ID: IAF-4

Lab ID#: 1204018A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.030	0.092	0.20	0.63



Air Toxics

Client Sample ID: IAB-4

Lab ID#: 1204018A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040311sim	Date of Collection:	3/29/12 9:45:00 AM
Dil. Factor:	1.36	Date of Analysis:	4/3/12 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected
cis-1,2-Dichloroethene	0.027	Not Detected	0.11	Not Detected
Trichloroethene	0.027	Not Detected	0.15	Not Detected
Tetrachloroethene	0.027	0.084	0.18	0.57
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: IAF-4

Lab ID#: 1204018A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040312sim	Date of Collection:	3/29/12 10:50:00 AM
Dil. Factor:	1.49	Date of Analysis:	4/3/12 05:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
Trichloroethene	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	0.092	0.20	0.63
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1204018A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040307sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/3/12 01:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1204018A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040303sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 10:12 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	85
Trichloroethene	86
Tetrachloroethene	88
trans-1,2-Dichloroethene	87

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1204018A-05A

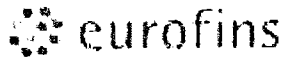
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040304sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:02 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	83
Trichloroethene	84
Tetrachloroethene	84
trans-1,2-Dichloroethene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1204018A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040305sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:53 AM

Compound	%Recovery
Vinyl Chloride	84
cis-1,2-Dichloroethene	82
Trichloroethene	82
Tetrachloroethene	83
trans-1,2-Dichloroethene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page ___ of ___

Project Manager Jemine Trask
 Collected by: (Print and Sign) Carri Bray Carri Bray
 Company ARCADIS Email Jemine.Trask@arcadis-us.com
 Address 126 W. Jefferson St #40 City Milwaukee State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:	Turn Around Time:	Lab Use Only
		Pressurized by
P.O. # _____	<input checked="" type="checkbox"/> Normal	Date _____
Project # <u>WI001283.0001.0010</u>	<input type="checkbox"/> Rush	Pressurization Gas _____
Project Name <u>Madison Kipp</u>	specify	<u>N₂</u> <u>He</u>

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psf)
<u>01A</u>	<u>IAB-4</u>		<u>3/29/12</u>	<u>0945</u>	<u>TD-15</u>	<u>-29</u>	<u>0</u>		
<u>02A</u>	<u>IAF-4</u>	<u>99109</u>	<u>3/29/12</u>	<u>1050</u>	<u>TD-15</u>	<u>-29</u>	<u>-3</u>		
03A	<u>SSV-1-4</u>		<u>3/29/12</u>	<u>1045</u>	<u>TD-15</u>	<u>-29</u>	<u>-5</u>		
04A	<u>SSV-2-4</u>		<u>3/29/12</u>	<u>1040</u>	<u>TD-15</u>	<u>-29</u>	<u>-5</u>		
<u>BW</u> <u>4/2/12</u>									

Relinquished by: (signature) <u>Carri Bray</u> Date/Time <u>3/30/12 1900</u>	Received by: (signature) <u>B. J. ...</u> Date/Time <u>4/2/12 0950</u>	Notes: <u>Only Report:</u> <u>PCE</u> <u>TCE</u> <u>Vinyl Chloride</u> <u>CIS-1,2-DCE</u> <u>trans-1,2-DCE</u>	Shipped in <u>2 boxes</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____		
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____		

Lab Use Only	Shipper Name <u>Fedex</u>	Air Bill # _____	Temp (°C) <u>N/A</u>	Condition <u>Good</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	Work Order # <u>1104018</u>
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Air Toxics

4/13/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name:
Project #:
Workorder #: 1204018B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 4/2/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



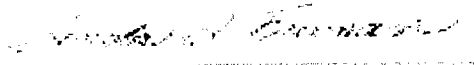
Air Toxics

WORK ORDER #: 1204018B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	
DATE RECEIVED:	04/02/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/13/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-4	Modified TO-15	5.0 "Hg	5 psi
04A	SSV-2-4	Modified TO-15	5.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/13/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
 This report shall not be reproduced, except in full, without the written approval of Eurofins | Air Toxics, Inc.

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 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1204018B**

Two 6 Liter Summa Canister samples were received on April 02, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

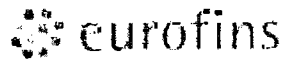
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

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

Client Sample ID: SSV-1-4

Lab ID#: 1204018B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.7	1.1	12

Client Sample ID: SSV-2-4

Lab ID#: 1204018B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.16	0.27	0.86	1.5
Tetrachloroethene	0.16	0.50	1.1	3.4



Air Toxics

Client Sample ID: SSV-1-4

Lab ID#: 1204018B-03A

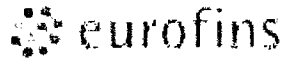
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040317	Date of Collection:	3/29/12 10:45:00 AM
Dil. Factor:	1.61	Date of Analysis:	4/3/12 09:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.7	1.1	12

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	78-134
Toluene-d8	100	91-106
4-Bromofluorobenzene	98	87-118



Air Toxics

Client Sample ID: SSV-2-4

Lab ID#: 1204018B-04A

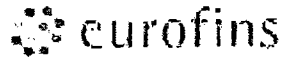
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040318	Date of Collection: 3/29/12 10:40:00 AM
Dil. Factor:	1.61	Date of Analysis: 4/3/12 10:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	0.27	0.86	1.5
Tetrachloroethene	0.16	0.50	1.1	3.4

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	78-134
Toluene-d8	100	91-106
4-Bromofluorobenzene	101	87-118



Air Toxic

Client Sample ID: Lab Blank

Lab ID#: 1204018B-05A

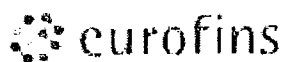
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040307	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/3/12 01:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1204018B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 10:12 AM

Compound	%Recovery
Vinyl Chloride	97
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	91
Trichloroethene	94
Tetrachloroethene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1204018B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:02 AM

Compound	%Recovery
Vinyl Chloride	96
trans-1,2-Dichloroethene	98
cis-1,2-Dichloroethene	91
Trichloroethene	88
Tetrachloroethene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1204018B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:53 AM

Compound	%Recovery
Vinyl Chloride	92
trans-1,2-Dichloroethene	94
cis-1,2-Dichloroethene	85
Trichloroethene	70
Tetrachloroethene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	79	70-130
4-Bromofluorobenzene	101	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Page ____ of ____

Project Manager Jemine Trask
 Collected by: (Print and Sign) Cari Bray Cari Bray
 Company ARCADIS Email Jemine.Trask@arcadis-us.com
 Address 126N. Jefferson St #40 City Milwaukee State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:	Turn Around Time:	Lab Use Only
	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by: Date: Pressurization Gas: N ₂ He
P.O. # _____		
Project # <u>W5001283.0001.0010</u>		
Project Name <u>Madison Kipp</u>		

*By
4/2/12*

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (net)
<u>01A</u>	<u>IAB-4</u>		<u>3/29/12</u>	<u>0945</u>	<u>TD-15</u>	<u>-29</u>	<u>0</u>		
<u>02A</u>	<u>IAF-4</u>	<u>99109</u>	<u>3/29/12</u>	<u>1050</u>	<u>TD-15</u>	<u>-29</u>	<u>-3</u>		
<u>03A</u>	<u>SSV-1-4</u>		<u>3/29/12</u>	<u>1045</u>	<u>TD-15</u>	<u>-29</u>	<u>-5</u>		
<u>04A</u>	<u>SSV-2-4</u>		<u>3/29/12</u>	<u>1040</u>	<u>TD-15</u>	<u>-29</u>	<u>-5</u>		

Relinquished by: (signature) <u>Cari Bray</u> Date/Time <u>3/30/12 1900</u>	Received by: (signature) <u>B. W. Miller</u> Date/Time <u>4/2/12 0850</u>	Notes: Only Report: PCE TCE Vinyl Chloride cis-1,2-DCE trans-1,2-DCE	Shipped in <u>2 boxes</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____		
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____		

Lab Use Only	Shipper Name <u>Fedex</u>	Air Bill # _____	Temp (°C) <u>N/A</u>	Condition <u>Good</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	Work Order # <u>1204018</u>
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**Madison-Kipp
Corporation**

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

March 30, 2012

Ms. Judith James
118 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
118 S. Marquette Street, Madison, WI 53704

Dear Ms. James:

On March 12 and 13, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 118 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-5 and SSV2-5 - Sub-slab samples collected on March 13, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-5 - Indoor air basement sample collected on March 12-13, 2012.
- IAF-5 - Indoor air first floor sample collected on March 12-13, 2012.

Based on the laboratory results (below), only PCE was detected in these samples. The levels of PCE in the collected samples were below the sub-slab soil gas and indoor air Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-5	1.4	60
SSV2-5	0.32	60
IAB-5	0.14	6
IAF-5	0.061	6

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Meunier', written in a cursive style.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

Indoor Air

INDOOR AIR QUALITY BUILDING SURVEY

Date: 03/06/2012 Project #: WI001283.0001.00005

Address: 118 Marquette Street, Madison, WI

Property Contact: Judith James

Phone: Home: (608) 628-3106 Work: () _____ Cell: (608) 552-9696

Building Occupants: Children <13 _____ Children age 13-18 _____ Adults 2

Building Construction Characteristics: (Circle appropriate description)

- Single Family
- Multiple Family
- School
- Commercial
- Ranch 2-Family
- Raised Ranch Duplex
- Colonial # of units _____
- Split Level Condominium
- Mobile Home
- Other (specify) _____

General Description of Building Construction Materials, especially new materials:

WOOD HOME, WOOD SIDING-(ORIGINAL)

How many occupied stories does the building have? 2

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation
- Storm Windows
- Energy-Efficient Windows
- Other (specify) _____

What type of basement does the building have? (Circle all that apply)

- Full basement
- Crawlspace
- Slab-on-Grade
- Other (specify) _____

Basement Size 300 (ft²)

Surveyor's Initials: ESL

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: CONCRETE FLOOR, CEMENT

BLOCK WALLS

Moisture: Always Dry Always Wet Frequently Wet Sometimes Wet

Is a basement sump present? (Y/N) N Is a sump pump present? (Y/N) N (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan
Individual Air Conditioning Units Air-to-Air Heat Exchanger
Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) / No
Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No
If yes, is it running? Yes / No

Surveyor's Initials: DL

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents	✓ (HALL)	
Air fresheners		
Oven cleaners	✓ (KITCHEN)	
Carpet/upholstery cleaners		
Hairspray		
Nail polish/polish remover		
Bathroom cleaner	✓	
Appliance cleaner		
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes	✓ (UPSTAIRS BATH)	
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)	✓ (WOOD GLUE)	
Scented trees, potpourri, etc.		
Other: SEASONAL WINDOW CLEANING	✓ (NOVEMBER)	
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)? N
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? N? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)? N?

Was there any recent remodeling or painting done in the building (Y/N)? N?

SAMPLE TEST IN DINING ROOM 2 MONTHS AGO

Surveyor's Initials: SLC

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) Y N? SCRAP PLYWOOD

Are there any new upholstery, drapes or other textiles in the building Y N?

Have the occupants ever noticed any unusual odors in the building? Y N?

If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? Y N?

If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides Y N? If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials:

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____
Prevailing wind speed and direction: _____
Describe the general weather conditions (e.g., sunny, cloudy, rain): _____
Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____
General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

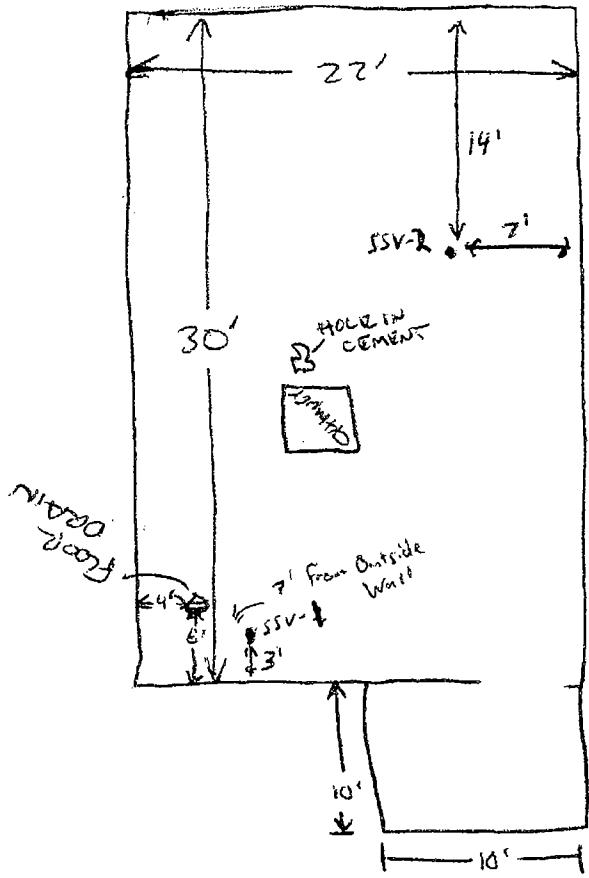
The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

TIM ALESSI
Name of Surveyor

[Signature]
Signature

3/6/12
Date

Surveyor's Initials: TA



SHERWIN WILLIAMS
 -CASHMERE
 -DURATION

MAPEI MAPEPRIME (UNDERLAYMENT PRIMER)

RED DEVIL ZIP-A-WAY CAULK

PAINTERS PREFERRED ACRYLIC CAULK

F&F MULTIPURPOSE ENAMEL

OIL ~~LAC~~ LATEX PAINTS

MOTOR OIL

PAINT THINNER

STARTING FLUID

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV1-118 SSV1-5
Client:	Madison Kipp	Boring Equipment:	none
Project:	Madison KIP	Sealant:	clay
Location:	SSV1-basement-118	Tubing Information:	1/2" teflon + nuberflex
Project #:		Miscellaneous Equipment:	None
Samplers:	TA / AW	Subcontractor:	None
Sample Point Location:	SSV1	Equipment:	He detector, shroud, pump
Sampling Depth:	directly below slab	Moisture Content:	dry
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/13/12	1552	-29				29.72	
3/13/12	1604	-5				29.72	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L 6L
Canister ID:	34023
Flow Controller ID:	FC258
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.60%
Final Helium Shroud:	86.40%
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Passed shut-in test. 118 MARQUETTE ST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV2-118 SSV 2-5
Client:	Madison Kipp	Boring Equipment:	None
Project:	Madison Kipp	Sealant:	Clay
Location:	SSV2 - basement - 118	Tubing Information:	1/4" Teflon + Masterflex
Project #:		Miscellaneous Equipment:	None
Samplers:	TA/AW	Subcontractor:	None
Sample Point Location:	SSV2	Equipment:	ppm He detector, He
Sampling Depth:	directly below slab	Moisture Content:	dry
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/13/12	1015	-29				29.72	
3/13/12	1050	-5				29.72	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	1703
Flow Controller ID:	FC 94
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	94.2%
Final Helium Shroud:	82.4%
Tracer Test Passed:	<u>Yes</u> No
Notes:	

General Observations/Notes:

<p>Direct Suck - in VSP. 118 MARQUETTE ST</p>

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-5
Client:	MADISON KIPP	Boring Equipment:	
Project:		Sealant:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:	on buffet table - first room	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/12/12	1045	7.30					
3/13/12	1508	-10.0					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	3574
Flow Controller ID:	5227
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	NA A	
Final Helium Shroud:		
Tracer Test Passed:	Yes	No
Notes:		

General Observations/Notes:

PASSED SMLT-INTEST.
48 S. MARQUETTE ST.

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	1AB-5
Client:	MADISON KIPP	Boring Equipment:	
Project:		Sealant:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:	on table 100 yards left	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/12/12	1046	-21.5					
3/13/12	1510	-6.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	1593
Flow Controller ID:	40015
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	NA			
Final Helium Shroud:				
Tracer Test Passed:			Yes	No
Notes:				

General Observations/Notes:

PASSED SHUT-IN TEST.
1 1/8 MARIETTE ST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/2-inch tubing will have a volume of approximately 10 mL.

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203369A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,



Ausha Scott
Project Manager



Air Toxics

WORK ORDER #: 1203369A

Work Order Summary

CLIENT: Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800
Indianapolis, IN 46204

BILL TO: Accounts Payable
Arcadis U.S., Inc.
630 Plaza Drive
Suite 600
Highlands Ranch, CO 80129

PHONE: 317.236.5207

P.O. # WI001283.0001.00009

FAX: 317-231-6514

PROJECT # WI001283.0001.00009 MADISON KIPP

DATE RECEIVED: 03/16/2012

CONTACT: Ausha Scott

DATE COMPLETED: 03/28/2012

Table with 5 columns: FRACTION #, NAME, TEST, RECEIPT VAC./PRES., FINAL PRESSURE. Rows include 01A, 02A, 03A, 04A, 05A, 05AA with corresponding test results and pressures.

CERTIFIED BY:

[Signature]

Laboratory Director

DATE: 03/28/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203369A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
- N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-5

Lab ID#: 1203369A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.034	0.14	0.23	0.92

Client Sample ID: IAF-5

Lab ID#: 1203369A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.040	0.061	0.27	0.41



Air Toxics

Client Sample ID: IAB-5

Lab ID#: 1203369A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031919sim	Date of Collection:	3/13/12 3:10:00 PM
Dil. Factor:	1.69	Date of Analysis:	3/19/12 09:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.14	0.23	0.92
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: IAF-5

Lab ID#: 1203369A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031920sim	Date of Collection:	3/13/12 3:08:00 PM
Dil. Factor:	1.99	Date of Analysis:	3/19/12 10:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.020	Not Detected	0.051	Not Detected
cis-1,2-Dichloroethene	0.040	Not Detected	0.16	Not Detected
Trichloroethene	0.040	Not Detected	0.21	Not Detected
Tetrachloroethene	0.040	0.061	0.27	0.41
trans-1,2-Dichloroethene	0.20	Not Detected	0.79	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203369A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031906sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/19/12 12:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203369A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031902sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 09:36 AM

Compound	%Recovery
Vinyl Chloride	85
cis-1,2-Dichloroethene	91
Trichloroethene	90
Tetrachloroethene	89
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203369A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031903sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 10:26 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	108
Trichloroethene	97
Tetrachloroethene	105
trans-1,2-Dichloroethene	120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203369A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031904sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/19/12 11:17 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	106
Trichloroethene	95
Tetrachloroethene	102
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCAOIS Email JENNINE.TRASK@ARCAOIS-US.COM
 Address 126 N. JEFFERSON ST, STE 400 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:		Turn Around Time:	<small>Lab Use Only</small>
P.O. # _____	<input checked="" type="checkbox"/> Normal		Pressurized by: _____
Project # <u>WI001283.0001.00009</u>	<input type="checkbox"/> Rush	Date: _____	Pressurization Gas: _____
Project Name <u>MADISON KIPP</u>	<small>specify</small>	N ₂ He	

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01A</u>	<u>IAB-5</u>	<u>4209</u>	<u>3/13/12</u>	<u>1510</u>	<u>TO-15</u>	<u>-29.5</u>	<u>-65</u>		
<u>02A</u>	<u>IAF-5</u>	<u>3574</u>	<u>3/13/12</u>	<u>1508</u>	<u>TO-15</u>	<u>7-30.0</u>	<u>-10.0</u>		
	<u>SSV-1-5</u>	<u>34023</u>	<u>3/13/12</u>	<u>1624</u>	<u>TO-15</u>	<u>-29.0</u>	<u>-5.0</u>		
	<u>SSV-2-5</u>	<u>1703</u>	<u>3/13/12</u>	<u>1650</u>	<u>TO-15</u>	<u>-29.0</u>	<u>-5.0</u>		

Relinquished by: (signature) <u>T.A.</u> Date/Time <u>3/15/12 1449</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/16/12 0900</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes: ONLY REPORT...
 PCE
 TCE
 VINYL CHLORIDE
 CIS-1,2-DCE
 TRANS-1,2-DCE

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>PRD Ex</u>		<u>NA</u>	<u>GOOD</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	<u>1203360</u>



Air Toxics

3/28/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203369B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager

A Eurofins Lancaster Laboratories Company

Eurofins Air Toxics, Inc.

180 Blue Ravine Road, Suite B
Folsom, CA 95630

T | 916-985-1000
F | 916-985-1020
www.airtoxics.com



Air Toxics

WORK ORDER #: 1203369B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-5	Modified TO-15	5.0 "Hg	5 psi
04A	SSV-2-5	Modified TO-15	5.6 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Laboratory Director

DATE: 03/28/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203369B**

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

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

Client Sample ID: SSV-1-5

Lab ID#: 1203369B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.4	1.1	9.3

Client Sample ID: SSV-2-5

Lab ID#: 1203369B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.32	1.1	2.2



Air Toxics

Client Sample ID: SSV-1-5

Lab ID#: 1203369B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032013	Date of Collection:	3/13/12 4:24:00 PM
Dil. Factor:	1.61	Date of Analysis:	3/20/12 06:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.4	1.1	9.3

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: SSV-2-5

Lab ID#: 1203369B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032015	Date of Collection:	3/13/12 4:50:00 PM
Dil. Factor:	1.65	Date of Analysis:	3/20/12 08:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.89	Not Detected
Tetrachloroethene	0.16	0.32	1.1	2.2

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203369B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032006	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/20/12 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203369B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:02 AM

Compound	%Recovery
Vinyl Chloride	93
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	94
Trichloroethene	106
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203369B-07A

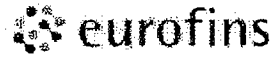
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	111
Trichloroethene	108
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203369B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	109
Trichloroethene	111
Tetrachloroethene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNINE.TRASK@ARCADIS.COM
 Address 126 W. JEFFERSON ST, STE 400 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:	Turn Around Time:	Lab Use Only
	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by: Date: Pressurization Gas: N ₂ He
P.O. # _____		
Project # <u>LWT00129300010009</u>		
Project Name <u>MADISON KIPP</u>		

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psl)
	IAB-5	4209	3/13/12	1510	TO-15	-29.5	-6.5		
	IAF-5	3574	3/13/12	1508	TO-15	-7-30.0	-10.0		
03A	SSV-1-5	34023	3/13/12	1624	TO-15	-29.0	-5.0		
04A	SSV-2-5	1703	3/13/12	1650	TO-15	-29.0	-5.0		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/15/12 1449</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>AR 3/16/12 0900</u>	Notes: <u>ONLY REPORT...</u> PCB TCF VINYL CHLORIDE CIS-1,2-DCE TRANS-1,2-DCE
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>ARCADIS</u>		<u>NA</u>	<u>GOOD</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	<u>1203369</u>



**Madison-Kipp
Corporation**

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

April 2, 2012

Ms. Elizabeth Reynolds
126 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
126 S. Marquette Street, Madison, WI 53704

Dear Ms. Reynolds:

On March 15 and 16, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 126 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-6 and SSV2-6 - Sub-slab samples collected on March 16, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-6 - Indoor air basement sample collected on March 15-16, 2012.
- IAF-6 - Indoor air first floor sample collected on March 15-16, 2012.

Based on the laboratory results (below), only PCE was detected in these samples. The levels of PCE in the collected samples were below the sub-slab soil gas and indoor air Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-6	5.8	60
SSV2-6	0.79	60
IAB-6	0.046	6
IAF-6	0.045	6

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Meunier', with a long horizontal flourish extending to the right.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

Indoor Air Quality Building Survey

INDOOR AIR QUALITY BUILDING SURVEY

Date: 3/7/12 Project #: WIC001283

Address: 126 MARQUETTE ST
MADISON, WI

Property Contact: ELIZABETH REYNOLDS

Phone: Home: (608) 334-6585 Work: () _____ Cell: () _____

Building Occupants: Children <13 _____ Children age 13-18 _____ Adults 2

Building Construction Characteristics: (Circle appropriate description)

- Single Family
- Multiple Family
- School
- Commercial
- Ranch 2-Family
- Raised Ranch Duplex
- Colonial # of units _____
- Split Level Condominium
- Mobile Home
- Other (specify) _____

General Description of Building Construction Materials, especially new materials:

WOOD CONSTRUCTION, VINYL SIDING

How many occupied stories does the building have? 2

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation
- Storm Windows
- Energy-Efficient Windows
- Other (specify) _____

What type of basement does the building have? (Circle all that apply)

- Full basement
- Crawlspace
- Slab-on-Grade
- Other (specify) _____

Basement Size 864 (ft²)

Surveyor's Initials: EA

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: _____

CONCRETE FLOOR, CONCRETE BLOCK WALL

Moisture: Always Dry Always Wet Frequently Wet Sometimes Wet

Is a basement sump present? (N) Is a sump pump present? (N) (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan
Individual Air Conditioning Units Air-to-Air Heat Exchanger
Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) (No)

Irrigation/private well? Yes / Yes (but not used) (No)

Existing subsurface depressurization (radon) system in place? Yes (No)

If yes, is it running? Yes / No

Surveyor's Initials: MLA

Page 2 of 5

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents	✓	
Air fresheners		
Oven cleaners		
Carpet/upholstery cleaners		
Hairspray		
Nail polish/polish remover		
Bathroom cleaner	✓	
Appliance cleaner	✓	
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace	✓	
Perfume/colognes		
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)		
Scented trees, potpourri, etc.		
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)?
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)?

Was there any recent remodeling or painting done in the building (Y/N)?

Surveyor's Initials: JA

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)?

Are there any new upholstery, drapes or other textiles in the building (Y/N)?

Have the occupants ever noticed any unusual odors in the building? (Y/N)?
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)?
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides (Y/N)? If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials: ehq

Page 4 of 5

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____
Prevailing wind speed and direction: _____
Describe the general weather conditions (e.g., sunny, cloudy, rain): _____
Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____
General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

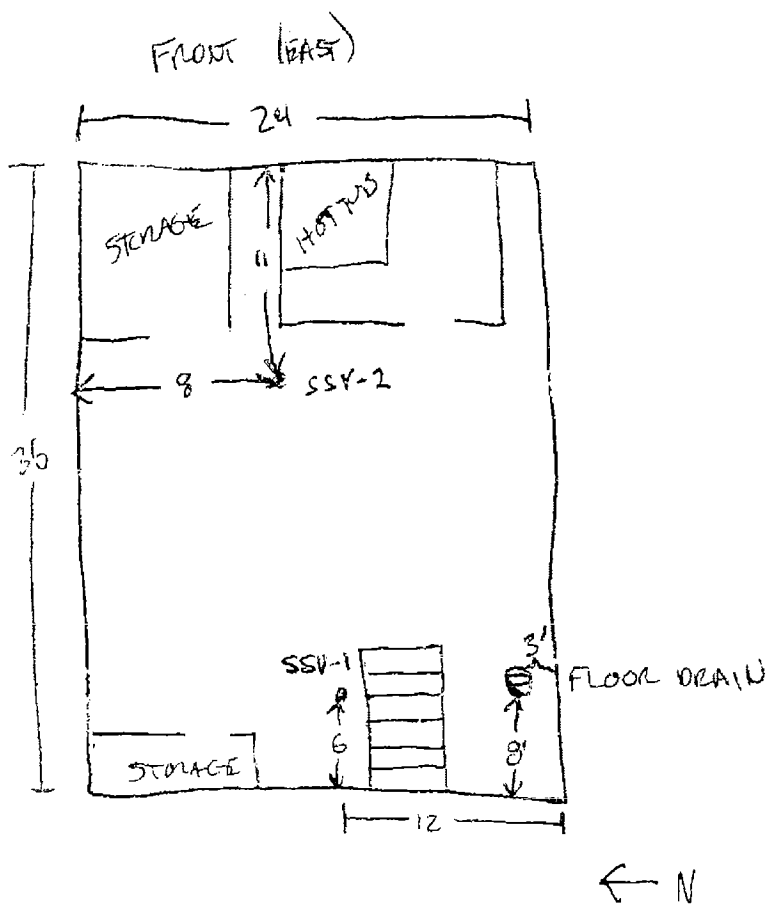
The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

TIM ALESSI
Name of Surveyor

Signature

3/7/12
Date

Surveyor's Initials: TA



GLADE AEROSOL AIR FRESHNER
 ELMER'S WOOD GLUE

SHERWIN WILLIAMS LATEX
 RUST-OUEM OIL BASED EMULSION
 PETROLEUM DISTILLATES

LUCITE LATEX
 MAUTZ LATEX
 TITANIUM DIOXIDE
 VINYL POLYMER
 ETHYLENE GLYCOL

ZINSSER PRIMER
 ACRYLIC COPOLYMER
 ACRYLIC POLYMER
 ETHYLENE GLYCOL

WEATHERSEED ACRYLIC
 DUTCH BOY LATEX
 GLEDDEN LATEX
 BIX PAINT DEGLOSSER
 MAX VOC 748 g/L

DEFT GLOSS WOOD FINISH
 ESTERS
 ETHER
 ALCOHOL
 KETONE
 HYDROCARBONS

CHAMPION STAINLESS STEEL
 CLEANER

JOE P WOODS OFF
 BRAND

RAID HOUSE & GARAGE

d-CIS ALLETHIUM
 3- PHENOXYBENZYL D-CIS AND
 TRANS, 2-2 DIMETHYL-3-
 CYCLOPROPANE CARBOXYLATE

ORANGE-GLOW HARDWOOD FLOOR CLEANER
 OLD ENGLISH SCRATCH REMOVER
 PETROLEUM DISTILLATES

THE WORKS RUST/LIME/CALCIUM REMOVER
 OXALIC & CITRIC ACID

HOWARD RESTOR-A-FINISH
 MAX VOC 385 g/L

SPEEDWAY DEGREASER
 OXY-CLEAN LAUNDRY
 DURO NAVAL JEWEL RUST DISSOLVER

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAB-6
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WJ	Tubing Information:	
Project #:	W1001283 0001.00009	Miscellaneous Equipment:	
Samples:	TA/AW	Subcontractor:	
Sample Point Location:	BASEMENT	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/15/17	8:14	-27					
3/16/17	7:10	-6					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	1576
Flow Controller ID:	40211
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:		
Final Helium Shroud:	NA	
Tracer Test Passed:	Yes	No
Notes:		

General Observations/Notes:

DOP-2 COLLECTED, INITIAL VAC = -50" Hg	
CANISTER # 4240 Final vac = -9" Hg	
FLOW CONTROL # 40177	
126 MARGATE	

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-6
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.0001.0009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	DINING ROOM/SOUTH WALL	Equipment:	
Sampling Depth:	—	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/15/12	8:11	-30					
3-16-12	7:16	-8					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	30839
Flow Controller ID:	40624
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	No Yes <u>A</u>
Notes:	

General Observations/Notes:

<u>PASSED SALT TEST</u>
<u>126 MACQUETTE</u>

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSU-1-6
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283, 0001, 00009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	WEST SIDE BASEMENT	Equipment:	
Sampling Depth:	SUB-SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/16/12	7:43	-28					
3/16/12	8:49	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	34754
Flow Controller ID:	FC 634
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.4
Final Helium Shroud:	780%
Tracer Test Passed:	(Yes) No
Notes:	O HELIUM

General Observations/Notes:

BACKGROUND 40-60 ppb on WEST PID, TEDLAR BAG = 2800 ppb
SPLIT SAMPLE WITH WEST PASSED SPLIT IN TEST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSU-2-6
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	W1001283, 0001, 00009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	NE CORNER	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/16/12	841	-30					
3/16/12	947	-7					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L 6L
Canister ID:	1149
Flow Controller ID:	FC00651
Notes:	

Tracer Test Information (If applicable):

Initial Helium Shroud:	95.1
Final Helium Shroud:	78.0%
Tracer Test Passed:	Yes No
Notes:	PASS WITH 5.1%

General Observations/Notes:

PASSED SPLIT-VAT TEST
SPLIT SAMPLE WITH W01T
15.8% HELIUM FAIL ON 1ST TEST
17.1% HELIUM FAIL ON 2ND TEST, REMOVE 1L AIR FROM SUB SLAB
Re-purge slab under spreading plug + re-test - PASS

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.



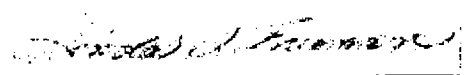
Air Toxics

WORK ORDER #: 1203427B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-6	Modified TO-15	5.5 "Hg	5 psi
04A	SSV-2-6	Modified TO-15	6.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 04/01/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203427B**

Two 6 Liter Summa Canister samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



NO. 102100

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

Client Sample ID: SSV-1-6

Lab ID#: 1203427B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	5.8	1.1	40

Client Sample ID: SSV-2-6

Lab ID#: 1203427B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.17	0.79	1.1	5.3



Air Toxics

Client Sample ID: SSV-1-6

Lab ID#: 1203427B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032215	Date of Collection:	3/16/12 7:43:00 AM
Dil. Factor:	1.64	Date of Analysis:	3/22/12 08:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
Tetrachloroethene	0.16	5.8	1.1	40

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: SSV-2-6

Lab ID#: 1203427B-04A

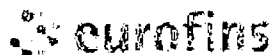
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032216	Date of Collection:	3/16/12 8:41:00 AM
Dil. Factor:	1.68	Date of Analysis:	3/22/12 09:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
Tetrachloroethene	0.17	0.79	1.1	5.3

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	113	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203427B-05A

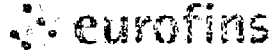
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV
Lab ID#: 1203427B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	98
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	108
Trichloroethene	105
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



Air Testis

Client Sample ID: LCS

Lab ID#: 1203427B-07A

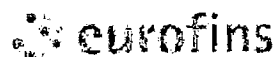
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	109
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	112
Trichloroethene	98
Tetrachloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	111	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203427B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	103
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	113
Trichloroethene	96
Tetrachloroethene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM BLESSI
 Company AZCADIS Email TRASK@AZCADIS.COM
 Address 126 N. DEER CREEK, STE 100 City MAUNSLON KIP State WI Zip 53202
 Phone 414-276-7747 Fax 414-276-7803

Project Info:
 P.O. # _____
 Project # L1001283.001.0009
 Project Name MAUNSLON KIP

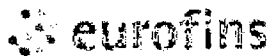
Turn Around Time:
 Normal
 Rush
specify
Lab Use Only
 Pressurized by: _____
 Date _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
	IAB-6	1576	3/15/12	814	TO-15	-27.0	-6.0		
	IAF-6	30839	3/15/12	811	TO-15	-30.0	-8.0		
03A	SSV-1-6	34754	3/16/12	743	TO-15	-28.0	-5.0		
03A	SSV-2-6	1149	3/16/12	841	TO-15	-30.0	-7.0		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/19/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/20/12 0920</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:
 ONLY REPORT...
 PCE
 TCE
 VAPOR CHLORIDE
 CIS-1,2-DCE
 TRANS-1,2-DCE

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>fed box</u>	<u>77812057 0230</u>	<u>NA</u>	<u>6000</u>	<u>Yes</u> No None	<u>1203427</u>



Air Toxics

4/1/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203427A

Dear Mr. Rob Uppencamp

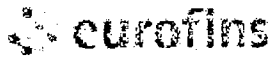
The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



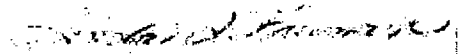
Air Toxics

WORK ORDER #: 1203427A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-6	Modified TO-15 SIM	7.5 "Hg	5 psi
02A	IAF-6	Modified TO-15 SIM	7.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	L.CSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 

DATE: 04/01/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203427A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-6

Lab ID#: 1203427A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.036	0.046	0.24	0.31

Client Sample ID: IAF-6

Lab ID#: 1203427A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.036	0.045	0.24	0.30



Air Toxins

Client Sample ID: IAB-6

Lab ID#: 1203427A-01A

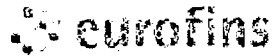
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032122sim	Date of Collection: 3/15/12 8:14:00 AM
Dil. Factor:	1.79	Date of Analysis: 3/21/12 11:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	0.046	0.24	0.31
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	107	70-130



Air Tests

Client Sample ID: IAF-6

Lab ID#: 1203427A-02A

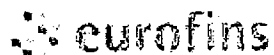
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032123sim	Date of Collection:	3/15/12 8:11:00 AM
Dil. Factor:	1.79	Date of Analysis:	3/21/12 11:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	0.045	0.24	0.30
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	104	70-130



03/21/12

Client Sample ID: Lab Blank

Lab ID#: 1203427A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032106sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/21/12 11:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	96	70-130



Air toxics

Client Sample ID: CCV
Lab ID#: 1203427A-04A

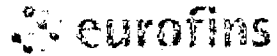
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032102sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 08:58 AM

Compound	%Recovery
Vinyl Chloride	84
cis-1,2-Dichloroethene	91
Trichloroethene	92
Tetrachloroethene	90
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203427A-05A

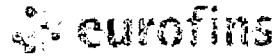
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032103sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 09:48 AM

Compound	%Recovery
Vinyl Chloride	100
cis-1,2-Dichloroethene	106
Trichloroethene	96
Tetrachloroethene	103
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130



Ammonites

Client Sample ID: LCSD

Lab ID#: 1203427A-05AA

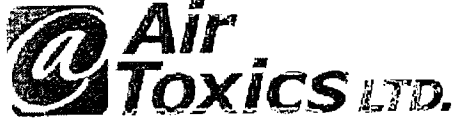
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032104sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 10:32 AM

Compound	%Recovery
Vinyl Chloride	100
cis-1,2-Dichloroethene	106
Trichloroethene	96
Tetrachloroethene	104
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNIFER TRASK
 Collected by: (Print and Sign) TIM ACROSSI
 Company ARCADIS Email TACROSSI@ARCADIS-USA.COM
 Address 126 N. JEFFERSON ST. #100 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:
 P.O. # _____
 Project # WI001283.0001.0009
 Project Name MADISON KIPP

Turn Around Time:
 Normal
 Rush
specify
 Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01A</u>	<u>IAB-6</u>	<u>1576</u>	<u>3/15/12</u>	<u>814</u>	<u>TO-15</u>	<u>-27.0</u>	<u>-6.0</u>		
<u>01A</u>	<u>IAB-6</u>	<u>30839</u>	<u>3/15/12</u>	<u>811</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-8.0</u>		
	<u>SSV-1-6</u>	<u>34754</u>	<u>3/16/12</u>	<u>743</u>	<u>TO-15</u>	<u>-28.0</u>	<u>-5.0</u>		
	<u>SSV-2-6</u>	<u>1149</u>	<u>3/16/12</u>	<u>841</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-7.0</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/19/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/20/12 0920</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:
 ONLY REPORT ...
 PCE
 TCE
 VINYL CHLORIDE
 CIS-1,2-DCE
 TRANS-1,2-DCE

Lab Use Only	Shipper Name <u>led by</u>	Air Bill # <u>7981 8057 6220</u>	Temp (°C) <u>NA</u>	Condition <u>Good</u>	Custody Seals Intact? <u>Yes</u> No None	Work Order # <u>1203428</u>
--------------	----------------------------	----------------------------------	---------------------	-----------------------	--	-----------------------------



**Madison-Kipp
Corporation**

Post Office Box 8043 201 Waubesa Street
Madison, WI 53708-8043 Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

April 3, 2012

Mr. Patrick Hannon
128 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
128 S. Marquette Street, Madison, WI 53704

Dear Mr. Hannon:

On March 13 and 14, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 128 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-7 and SSV2-7 - Sub-slab samples collected on March 14, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-7 - Indoor air basement sample collected on March 13-14, 2012.
- IAF-7 - Indoor air first floor sample collected on March 13-14, 2012.

Based on the laboratory results (below), PCE was detected in only one sub-slab sample. The level of PCE in the collected sample was below the sub-slab soil gas Residential Action Level provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-7	0.18	60
SSV2-7	Not Detected	60
IAB-7	Not Detected	6
IAF-7	Not Detected	6

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Meunier', with a large, stylized initial 'M'.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
David C. Bender, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

Indoor Air Quality Building Survey

INDOOR AIR QUALITY BUILDING SURVEY

Date: 03/06/2012 Project #: WI 001283

Address: 128 Marquette Street, Madison, WI

Property Contact: Patrick Hannon

Phone: Home: (608) 239-3184 Work: () _____ Cell: () _____

Building Occupants: Children <13 _____ Children age 13-18 _____ Adults 2

Building Construction Characteristics: (Circle appropriate description)

- Single Family
- Multiple Family
- School
- Commercial
- Ranch 2-Family
- Raised Ranch Duplex
- Colonial # of units _____
- Split Level Condominium
- Mobile Home
- Other (specify) _____

General Description of Building Construction Materials, especially new materials:

WOOD CONSTRUCTION WITH ALUMINUM SIDING

How many occupied stories does the building have? 1

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation
- Storm Windows
- Energy-Efficient Windows
- Other (specify) _____

What type of basement does the building have? (Circle all that apply)

- Full basement
- Crawlspace
- Slab-on-Grade
- Other (specify) _____

Basement Size 250 (ft²)

Surveyor's Initials: EDK

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: CONCRETE FLOOR (PARTIAL TILE)

CEMENT BLOCK WALLS

Moisture: Always Dry Always Wet Frequently Wet Sometimes Wet

Is a basement sump present? (Y/N) (N) Is a sump pump present? (Y/N) (N) (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

BACK (WEST WALL)

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove

Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____

Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan

Individual Air Conditioning Units Air-to-Air Heat Exchanger

Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) No

Irrigation/private well? Yes / Yes (but not used) No

Existing subsurface depressurization (radon) system in place? Yes No

If yes, is it running? Yes / No

Surveyor's Initials: SPZ

Page 2 of 5

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

	Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
<u>LATEX</u>	Paints or paint thinners	✓	
	Gas-powered equipment		
	Gasoline storage cans		
	Cleaning solvents		
	Air fresheners		
	Oven cleaners		
	Carpet/upholstery cleaners	✓ (1 MONTH AGO)	
	Hairspray	✓ (UPSTAIRS)	
	Nail polish/polish remover	✓ (UPSTAIRS)	
	Bathroom cleaner	✓ (KITCHEN)	
	Appliance cleaner		
	Furniture/floor polish		
	Moth balls		
	Fuel tank		
	Wood stove		
	Fireplace		
	Perfume/colognes	✓ (BATHROOM)	
	Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)		
	Scented trees, potpourri, etc.		
	Other:		
	Other:		
	Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)?
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)?

Was there any recent remodeling or painting done in the building (Y/N)?

Surveyor's Initials:

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)?

Are there any new upholstery, drapes or other textiles in the building (Y/N)?

Have the occupants ever noticed any unusual odors in the building? (Y/N)?
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)?
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides (Y/N)? If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials:

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____

Prevailing wind speed and direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____

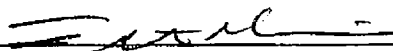
General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

T M ACCESSI

Name of Surveyor

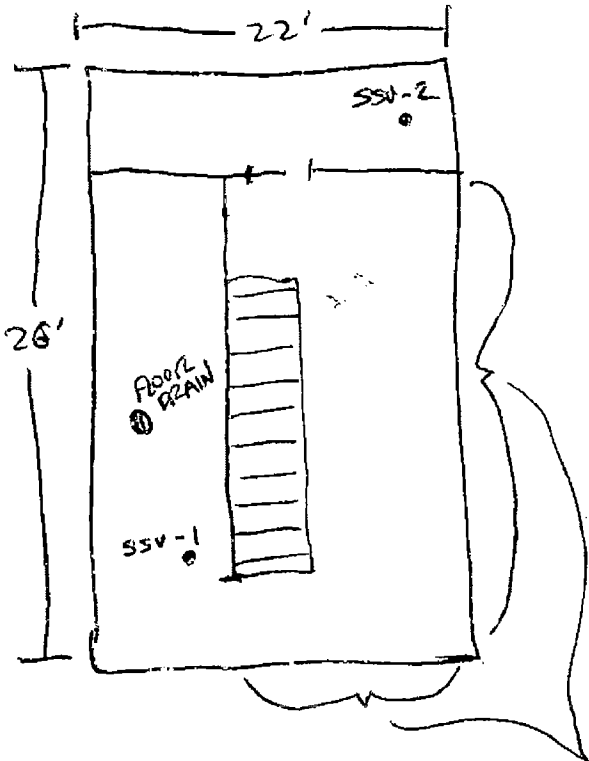


Signature

3/6/12

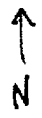
Date

Surveyor's Initials: TA



- BEHR LATEX PAINT
- OIL BASE ENAMEL
- WOOD GLUE (EMERS)
- MINWAX POLYURETHANE
- TILE SEALANT
- GLAZE AIR SPRAY (FRESHNER)
- SPRAY PAINT ENAMEL
- BONDO BODY FILLER
- PAINT THINNER

THIS AREA FINISHED WITH TILE AND DRYWALL



Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-2-7
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WIG01283.0001.00009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	NE CORNER	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3-14-12	17:51	-29.5					
3-14-12	18:25 18:25	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	30841
Flow Controller ID:	FL580
Notes:	

Tracer Test Information (If applicable):

Initial Helium Shroud:	95.0
Final Helium Shroud:	87.5
Tracer Test Passed:	(Yes) No
Notes:	500 ppm He in bag

General Observations/Notes:

<p>General Observations/Notes</p> <p>1285 Marquette St</p>

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-1-7
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI0012820001.00009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	SW CORNER	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/14/12	1738	-29.5					
3/14/12	1820	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	36049
Flow Controller ID:	FL364
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.2
Final Helium Shroud:	87.0
Tracer Test Passed:	<u>Yes</u> No
Notes:	2550 ppm He in bag

General Observations/Notes:

<u>PASSED</u> sheet - in bag
DUP-1 COLLECTED, INITIAL VAC = -29.5", final = -5
CANISTER ID - 36049
FLOW CONTROL ID - 0859
125 Mosque He St.

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	FAB-128
Client:		Boring Equipment:	AB-7
Project:		Sealant:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/13/12	1202	-28.5				29.75	
3/19/12	1703	-5.0					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	5697
Flow Controller ID:	40234
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	NA
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

PASSED SWUT-INT TEST
108 MARQUETT ST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-128
Client:		Boring Equipment:	IAF-7
Project:		Sealant:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/13/12	1800	2-30				29.76	
3/14/12	1702	-9.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	32125
Flow Controller ID:	
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	U/A	
Final Helium Shroud:		
Tracer Test Passed:	Yes	No
Notes:		

General Observations/Notes:

PASSED SHORT-INT TEST
128 MARQUETTE ST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.



Air Toxics

3/28/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: W1001283.0001.00009
Workorder #: 1203370A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



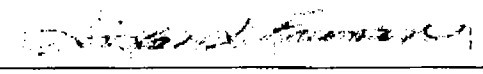
Air Toxics

WORK ORDER #: 1203370A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-7	Modified TO-15 SIM	5.4 "Hg	5 psi
02A	IAF-7	Modified TO-15 SIM	9.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 

Laboratory Director

DATE: 03/28/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 , FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203370A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxins

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

Client Sample ID: IAB-7

Lab ID#: 1203370A-01A

No Detections Were Found.

Client Sample ID: IAF-7

Lab ID#: 1203370A-02A

No Detections Were Found.



Air Toxics

Client Sample ID: IAB-7

Lab ID#: 1203370A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031921sim	Date of Collection: 3/13/12 5:03:00 PM
Dil. Factor:	1.63	Date of Analysis: 3/19/12 10:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: IAF-7

Lab ID#: 1203370A-02A

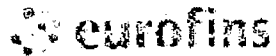
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031922sim	Date of Collection:	3/13/12 5:02:00 PM
Dil. Factor:	1.91	Date of Analysis:	3/20/12 08:43 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.019	Not Detected	0.049	Not Detected
cis-1,2-Dichloroethene	0.038	Not Detected	0.15	Not Detected
Trichloroethene	0.038	Not Detected	0.20	Not Detected
Tetrachloroethene	0.038	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203370A-03A

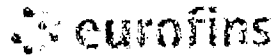
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031906sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 12:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130



Air Toxins

Client Sample ID: CCV

Lab ID#: 1203370A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031902slm	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 09:36 AM

Compound	%Recovery
Vinyl Chloride	85
cis-1,2-Dichloroethene	91
Trichloroethene	90
Tetrachloroethene	89
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Quality

Client Sample ID: LCS

Lab ID#: 1203370A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031903sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 10:26 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	108
Trichloroethene	97
Tetrachloroethene	105
trans-1,2-Dichloroethene	120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203370A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031904sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 11:17 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	106
Trichloroethene	95
Tetrachloroethene	102
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130



Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNIFE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNIFE.TRASK@ARCADIS.COM
 Address 26 N. DEFRANCO ST., STE 400 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info:
 P.O. # _____
 Project # WI100/283-0001-00009
 Project Name MADISON KIPP

Turn Around Time:
 Normal
 Rush
specify

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (g)
01A	IAB-7	5697	3/13/12	1703	TO-15	-28.5	-5.0		
02A	IAP-7	32125	3/13/12	1702	TO-15	-7.300	-9.5		
	SSV-1-7	36049	3/14/12	1820	TO-15	-29.5	-5.0		
	SSV-2-7	30841	3/14/12	1825	TO-15	-29.5	-5.0		

Relinquished by: (signature) <u>TJA</u> Date/Time <u>3/15/12 1449</u>	Received by: (signature) <u>TJA</u> Date/Time <u>3/16/12 0900</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:
 ONLY REPORT...
 PCB
 TCE
 VINYL CHLORIDE
 CIS-1,2-DCE
 TRANS-1,2-DCE

Lab Use Only	Shipper Name <u>FED Ex</u>	Air Bill # _____	Temp (°C) <u>N/A</u>	Condition <u>GOOD</u>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	Work Order # <u>1203870</u>
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Air Toxics

3/30/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203370B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



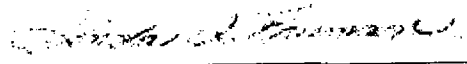
Air Toxics

WORK ORDER #: 1203370B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/30/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-7	Modified TO-15	4.4 "Hg	5 psi
04A	SSV-2-7	Modified TO-15	3.6 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 03/30/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203370B**

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxicology

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

Client Sample ID: SSV-1-7

Lab ID#: 1203370B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.18	1.1	1.2

Client Sample ID: SSV-2-7

Lab ID#: 1203370B-04A

No Detections Were Found.



Air Toxics

Client Sample ID: SSV-1-7

Lab ID#: 1203370B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032016	Date of Collection:	3/14/12 6:20:00 PM
Dil. Factor:	1.57	Date of Analysis:	3/20/12 08:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Trichloroethene	0.16	Not Detected	0.84	Not Detected
Tetrachloroethene	0.16	0.18	1.1	1.2

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: SSV-2-7

Lab ID#: 1203370B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032019	Date of Collection: 3/14/12 6:25:00 PM
Dil. Factor:	1.52	Date of Analysis: 3/20/12 10:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.39	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Trichloroethene	0.15	Not Detected	0.82	Not Detected
Tetrachloroethene	0.15	Not Detected	1.0	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203370B-05A

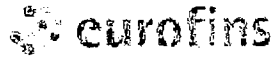
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130



Air 1201 S

Client Sample ID: CCV

Lab ID#: 1203370B-06A

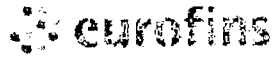
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:02 AM

Compound	%Recovery
Vinyl Chloride	93
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	94
Trichloroethene	106
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Services

Client Sample ID: LCS

Lab ID#: 1203370B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	111
Trichloroethene	108
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203370B-07AA

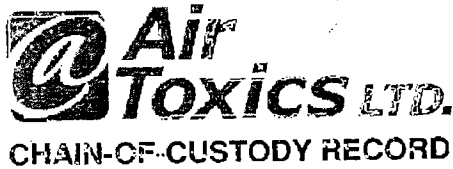
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	109
Trichloroethene	111
Tetrachloroethene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



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Page 1 of 1

Project Manager JENNIFER TRASK
 Collected by: (Print and Sign) JIM ALESSI
 Company ARCADIS Email JENNIFER.TRASK@ARCADIS.COM
 Address VEN. TREEVIEW ST, S.F. 400 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7712 Fax 414-276-7603

Project Info: P.O. # _____ Project # <u>WI121283.000.00009</u> Project Name <u>MARISAN KIPP</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
--	--	--

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
	IAB-7	5697	3/13/12	1703	TO-15	-28.5	-5.0		
	IAP-7	32125	3/13/12	1702	TO-15	>30.0	-9.5		
03A	SSV-1-7	36049	3/14/12	1820	TO-15	-29.5	-5.0		
04A	SSV-2-7	30841	3/14/12	1825	TO-15	-29.5	-5.0		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/15/12 1449</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/16/12 0900</u>	Notes: ONLY REPORT -- PCE TCE VINYL CHLORIDE CIS-1,2-DCE TRANS-1,2-DCE
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>FED EX</u>	Air Bill # _____	Temp (°C) <u>NA</u>	Condition <u>GC02</u>	Custody Seals Intact? <u>(Yes)</u> No None	Work Order # <u>1203370</u>
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**Madison-Kipp
Corporation**

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

March 30, 2012

Mr. Barry Carleson
130 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
130 S. Marquette Street, Madison, WI 53704

Dear Mr. Carleson:

On March 13 and 14, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 130 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

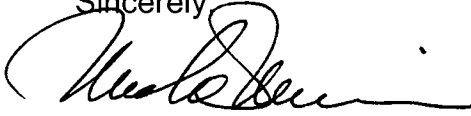
- SSV1-8 and SSV2-8 - Sub-slab samples collected on March 14, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-8 - Indoor air basement sample collected on March 13-14, 2012.
- IAF-8 - Indoor air first floor sample collected on March 13-14, 2012.

Based on the laboratory results (below), only PCE was detected in these samples. The levels of PCE in the collected samples were below the sub-slab soil gas and indoor air Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-8	2.4	60
SSV2-8	0.46	60
IAB-8	0.036	6
IAF-8	Not Detected	6

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely

A handwritten signature in black ink, appearing to read 'Mark Meunier', with a stylized flourish at the end.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

Indoor Air Quality Building Survey

INDOOR AIR QUALITY BUILDING SURVEY

Date: 03/07/12 Project #: WI001238

Address: 130 Marquette Street, Madison, WI

Property Contact: Barry Carleson

Phone: Home: (608) 772-0827 Work: () _____ Cell: () _____

Building Occupants: Children <13 _____ Children age 13-18 _____ Adults 2

Building Construction Characteristics: (Circle appropriate description)

- Single Family
- Multiple Family
- School
- Commercial
- Ranch 2-Family
- Raised Ranch Duplex
- Colonial # of units _____
- Split Level Condominium
- Mobile Home
- Other (specify) _____

General Description of Building Construction Materials, especially new materials:

2 STORY, SLATE SIDING, WOOD CONSTRUCTION

How many occupied stories does the building have? 2

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation
- Storm Windows
- Energy-Efficient Windows
- Other (specify) _____

What type of basement does the building have? (Circle all that apply)

- Full basement
- Crawlspace
- Slab-on-Grade
- Other (specify) _____

Basement Size 500 (ft²)

Surveyor's Initials: SM

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: CONCRETE, PAVERED

CONCRETE WALLS, SOME CARPET, SOME TILE

Moisure: Always Dry Always Wet Frequently Wet Sometimes Wet
OR FOR SEVERAL YEARS

Is a basement sump present? (Y/N) Is a sump pump present? (Y/N) (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan
Individual Air Conditioning Units Air-to-Air Heat Exchanger
Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) / No

Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No

If yes, is it running? Yes / No

Surveyor's Initials: [Signature]

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓ LATEX	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents		
Air fresheners		
Oven cleaners		
Carpet/upholstery cleaners	✓	
Hairspray		
Nail polish/polish remover	✓	
Bathroom cleaner	✓ (CITRUS BASED)	
Appliance cleaner		
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes	✓	
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)		
Scented trees, potpourri, etc.	✓ (AROMATIC OILS)	
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)?
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)?

Was there any recent remodeling or painting done in the building (Y/N)?
UPSTAIRS BEDROOM (3 WEEKS OLD)

Surveyor's Initials: WJA

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)

Are there any new upholstery, drapes or other textiles in the building (Y/N)

Have the occupants ever noticed any unusual odors in the building? (Y/N)
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides (Y/N) If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials: SWR

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____

Prevailing wind speed and direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____

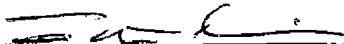
General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

TIM AKRSSL


Name of Surveyor

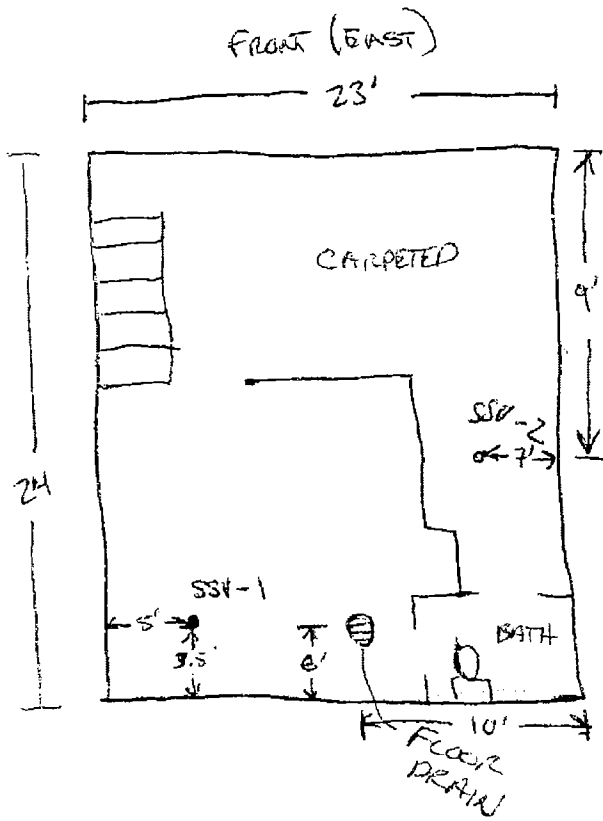


Signature

3/7/12

Date

Surveyor's Initials: 



- ZUM LAB LAUNDRY SOAP
(CHEMICAL FREE)
NO VOC'S
- SHUR-FINE LEMON SCENT BLEACH
- ZOUT STAIN REMOVER
(NO INGREDIENT LIST)
- JOE MANEGANO'S MIRACLE CLEAN
FABRIC SOFTNER
(NO INGREDIENT LIST)
(STATES ALL NATURAL)

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	<i>EAB-130 IAB-8</i>
Client:		Boring Equipment:	
Project:		Sealant:	
Location:	<i>WATER SOFTNER</i>	Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
<i>3/13/10</i>	<i>810</i>	<i>-29</i>				<i>29.94</i>	
<i>3/11/10</i>	<i>705</i>	<i>-4.5</i>				<i>29.94</i>	
<i>3/19/10</i>	<i>702</i>	<i>-7</i>				<i>29.94</i>	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	<i>9950</i>
Flow Controller ID:	<i>40303</i>
Notes:	

Tracer Test information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	<i>N/A</i>
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

<i>PASSED SVA-T-INT-TEST</i>
<i>DO NOT DO TEST</i>

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	3AE-1301A-8
Client:		Boring Equipment:	
Project:		Sealant:	
Location:	BETWEEN DINING/LIVING ROOM	Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/13/12	905	-30	70			29.94	
3/14/12	702	-7					
3/14/12	700	-11.5				29.94	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	21001
Flow Controller ID:	40060 40060
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	NA
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

PASSED SHT-IN TEST
30 MARQUETTE STREET

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/2-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-1 (130)
Client:	MADISON KIPP	Boring Equipment:	SSV-1-8
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.0001.00008	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	NW CORNER OF BASEMENT	Equipment:	
Sampling Depth:	3.0 SWS	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	200ml e 200ml/min

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/14/12	750	-28.5				29.91	
3/14/12	856	-5.0				29.91	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	36032
Flow Controller ID:	0000006862
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.2
Final Helium Shroud:	780°/10
Tracer Test Passed:	(Yes) No
Notes:	10,800 He in bag

General Observations/Notes:

PASSED SPLIT-IN TEST
SPLIT SAMPLE WITH WHT
130 MANDUETTE

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-2 (130)
Client:	MADISON KIPP	Boring Equipment:	SSV-2-8
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WJ001283 0001 00009	Miscellaneous Equipment:	
Samplers:	TA (AW)	Subcontractor:	
Sample Point Location:	SE CORNER OF BASEMENT	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	200 mL @ 200 mL/min

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/14/12	831	-28.5				29.91	
3/14/12	928	-5.0				29.91	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L 6L
Canister ID:	23997
Flow Controller ID:	FC 645
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.5
Final Helium Shroud:	780°10
Tracer Test Passed:	Yes No
Notes:	1925 ppm ^{LEK} in bag

General Observations/Notes:

PASSED SPLIT-INT TEST
SPLIT SAMPLE WITH WJ01H
130 MARKQUE TCF ST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.



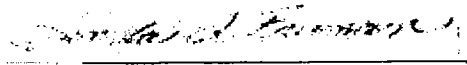
Air Toxics

WORK ORDER #: 1203368B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-8	Modified TO-15	6.2 "Hg	5 psi
04A	SSV-2-8	Modified TO-15	5.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 03/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203368B**

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

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

Client Sample ID: SSV-1-8

Lab ID#: 1203368B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.17	2.4	1.1	16

Client Sample ID: SSV-2-8

Lab ID#: 1203368B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.46	1.1	3.1



Air Toxins

Client Sample ID: SSV-1-8

Lab ID#: 1203368B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032011	Date of Collection:	3/14/12 7:50:00 AM
Dil. Factor:	1.69	Date of Analysis:	3/20/12 04:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Trichloroethene	0.17	Not Detected	0.91	Not Detected
Tetrachloroethene	0.17	2.4	1.1	16

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	89	70-130



Air Toxic

Client Sample ID: SSV-2-8

Lab ID#: 1203368B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032012	Date of Collection: 3/14/12 8:31:00 AM
Dil. Factor:	1.61	Date of Analysis: 3/20/12 05:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	0.46	1.1	3.1

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203368B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203368B-06A

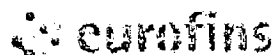
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:02 AM

Compound	%Recovery
Vinyl Chloride	93
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	94
Trichloroethene	106
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203368B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	111
Trichloroethene	108
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203368B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	109
Trichloroethene	111
Tetrachloroethene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

@ Air TOXICS LTD.
CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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Page 1 of 1

Project Manager JENNINE TRASK
Collected by: (Print and Sign) TIM ALESSI
Company ARCADIS Email JENNINE.TRASK@ARCADIS.COM
Address 26 W. JEFFERSON ST. City MILWAUKEE State WI Zip 53202
Phone 414-276-7747 Fax 414-276-7603

Project Info:
P.O. # _____
Project # WI001283.0001.00069
Project Name MADISON KIPP

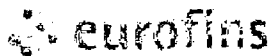
Turn Around Time:
 Normal
 Rush
specify _____

Light-Use Only
Pressurized by: _____
Date: _____
Pressurization Gas: _____
N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
	IAB-8	9950	3/14/12	702	TO-15	-29.0	-7.0		
	IAF-8	21001	3/14/12	700	TO-15	-30.0	-11.5		
<u>03A</u>	SSV-1-8	36032	3/14/12	750	TO-15	-28.5	-5.0		
<u>04A</u>	SSV-2-8	23997	3/14/12	831	TO-15	-28.5	-5.0		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/15/12 1449</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/16/12 0900</u>	Notes: ONLY REPORT... PCE TCE VINYL CHLORIDE CIS-1,2-DCE TRANS-1,2-DCE
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>FED EX</u>	Air Bill # _____	Temp (°C) <u>16.1</u>	Condition <u>SC20</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	Work Order # <u>1203368</u>
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Air Toxics

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203368A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



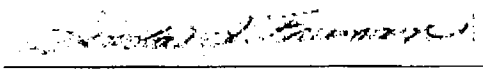
Air Toxics

WORK ORDER #: 1203368A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-8	Modified TO-15 SIM	7.6 "Hg	5 psi
02A	IAF-8	Modified TO-15 SIM	11.2 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 

DATE: 03/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, IA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203368A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

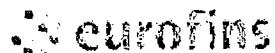
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Labs

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-8

Lab ID#: 1203368A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.036	0.036	0.24	0.25

Client Sample ID: IAF-8

Lab ID#: 1203368A-02A

No Detections Were Found.

Client Sample ID: IAB-8

Lab ID#: 1203368A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031917sim	Date of Collection: 3/14/12 7:02:00 AM
Dil. Factor:	1.79	Date of Analysis: 3/19/12 08:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	0.036	0.24	0.25
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: IAF-8

Lab ID#: 1203368A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031918sim	Date of Collection: 3/14/12 7:00:00 AM
Dil. Factor:	2.14	Date of Analysis: 3/19/12 09:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.021	Not Detected	0.055	Not Detected
cis-1,2-Dichloroethene	0.043	Not Detected	0.17	Not Detected
Trichloroethene	0.043	Not Detected	0.23	Not Detected
Tetrachloroethene	0.043	Not Detected	0.29	Not Detected
trans-1,2-Dichloroethene	0.21	Not Detected	0.85	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203368A-03A

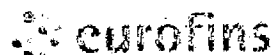
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031906sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/19/12 12:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130



CHROMATICS

Client Sample ID: CCV

Lab ID#: 1203368A-04A

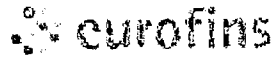
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031902slm	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 09:36 AM

Compound	%Recovery
Vinyl Chloride	85
cis-1,2-Dichloroethene	91
Trichloroethene	90
Tetrachloroethene	89
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203368A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031903slm	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 10:26 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	108
Trichloroethene	97
Tetrachloroethene	105
trans-1,2-Dichloroethene	120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCSD

Lab ID#: 1203368A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031904sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 11:17 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	106
Trichloroethene	95
Tetrachloroethene	102
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and International laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNINE.TRASK@ARCADIS.COM
 Address 126 U. JEFFERSON ST, STE 400 CITY MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info: P.O. # _____ Project # <u>WI001283-0001-00009</u> Project Name <u>MADISON KIPP</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
---	--	--

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01A</u>	<u>IAB-8</u>	<u>9950</u>	<u>3/14/12</u>	<u>702</u>	<u>TO-15</u>	<u>-29.0</u>	<u>-7.0</u>		
<u>02A</u>	<u>IAF-8</u>	<u>21001</u>	<u>3/14/12</u>	<u>700</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-11.5</u>		
	<u>SSV-1-8</u>	<u>36032</u>	<u>3/14/12</u>	<u>750</u>	<u>TO-15</u>	<u>-28.5</u>	<u>-5.0</u>		
	<u>SSV-2-8</u>	<u>23997</u>	<u>3/14/12</u>	<u>831</u>	<u>TO-15</u>	<u>-28.5</u>	<u>-5.0</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/15/12 1449</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/16/12 0900</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:
ONLY REPORT...
PCE
TCE
VWCL CHLORIDE
CIS-1,2-DCE
TRANS-1,2-DCE

Lab Use Only	Shipper Name <u>FED EX</u>	Air Bill # _____	Temp (°C) <u>NA</u>	Condition <u>SCUD</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	Work Order # <u>1203363</u>
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**Madison-Kipp
Corporation**

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

April 4, 2012

Ms. Amy Crikelair
134 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
134 S. Marquette Street, Madison, WI 53704

Dear Ms. Crikelair:

On March 15 and 16, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 134 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-9 and SSV2-9 - Sub-slab samples collected on March 16, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-9 - Indoor air basement sample collected on March 15-16, 2012.
- IAF-9 - Indoor air first floor sample collected on March 15-16, 2012.

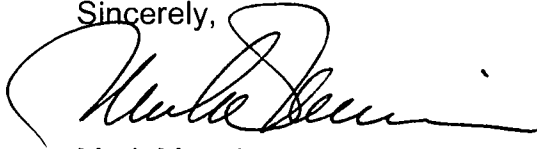
Based on the laboratory results (below), only PCE was detected in the sub-slab samples. The levels of PCE in the collected samples were below the sub-slab soil gas and indoor air Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-9	6.2	60
SSV2-9	1.6	60
IAB-9	0.14	6
IAF-9	0.035	6

The compound trans-1,2-dichloroethene was also detected in the indoor air samples at levels of 5.5 ppbv (sample IAB-9) and 0.54 ppbv (sample IAF-9). Trans-1,2-dichloroethene was not detected in the sub-slab samples, which indicates an indoor source. In addition, the detected concentrations are below the WDNR Residential Action Level of 16 ppbv.

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Meunier". The signature is fluid and cursive, with a large initial "M" and a long horizontal stroke at the end.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

Indoor Air Quality Building Survey

INDOOR AIR QUALITY BUILDING SURVEY

Date: 03/07/12 Project #: WI 001238

Address: 134 Marquette Street, Madison, WI

Property Contact: Amy Crikelair

Phone: Home: (608) 241-1503 Work: () Cell: ()

Building Occupants: Children <13 Children age 13-18 Adults 2

Building Construction Characteristics: (Circle appropriate description)

- Single Family Multiple Family School Commercial
Ranch 2-Family Raised Ranch Duplex Colonial # of units
Split Level Condominium Mobile Home Other (specify)

General Description of Building Construction Materials, especially new materials:

WOOD CONSTRUCTION, WOOD SIDING

How many occupied stories does the building have? 2

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation Storm Windows Energy-Efficient Windows
Other (specify)

What type of basement does the building have? (Circle all that apply)

- Full basement Crawlspace Slab-on-Grade Other (specify)

Basement Size (ft^2)

Surveyor's Initials: [Signature]

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: _____

CONCRETE FLOOR, POURED CONCRETE WALLS

Moisture: Always Dry Always Wet Frequently Wet Sometimes Wet

Is a basement sump present? (Y/N) Is a sump pump present? (Y/N) (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan
 Individual Air Conditioning Units Air-to-Air Heat Exchanger
Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) No

Irrigation/private well? Yes / Yes (but not used) No

Existing subsurface depressurization (radon) system in place? Yes No

If yes, is it running? Yes / No

Surveyor's Initials:

Page 2 of 5

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents	✓	
Air fresheners		
Oven cleaners		
Carpet/upholstery cleaners		
Hairspray		
Nail polish/polish remover		
Bathroom cleaner	✓	
Appliance cleaner		
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace	✓ (GAS)	
Perfume/colognes		
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)		
Scented trees, potpourri, etc.		
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)? Y N
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)? Y N

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)? Y N

Was there any recent remodeling or painting done in the building (Y/N)? Y N

Surveyor's Initials: SMG

Page 3 of 5

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)?

Are there any new upholstery, drapes or other textiles in the building (Y/N)?

Have the occupants ever noticed any unusual odors in the building? (Y/N)?
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)?
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides(Y/N)? If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials: ZMA

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____
Prevailing wind speed and direction: _____
Describe the general weather conditions (e.g., sunny, cloudy, rain): _____
Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____
General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

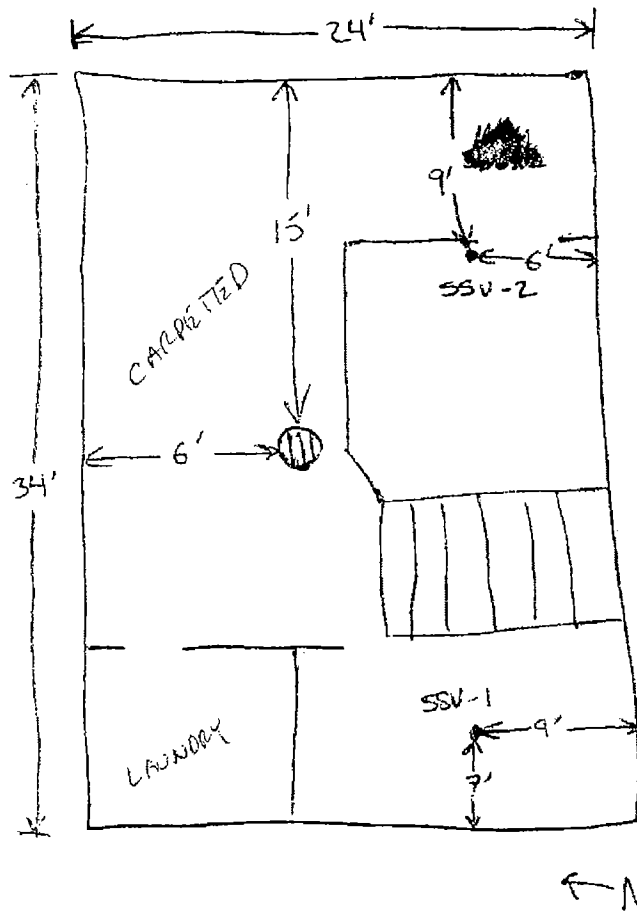
The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

TIM ALESSI
Name of Surveyor

Signature

3/7/12
Date

Surveyor's Initials: TA



COLEMAN FUEL

MINWAX POLYURETHANE

BEHR LATEX PAINT

GLIDDEN INTERIOR/EXTERIOR

MINWAX WOOD STAIN

DUTCH BOY PUKA-CLEAN

DAP WINDOW GLAZING

ELMER'S SPRAY ADHESIVE

RUST OLEUM LATEX

MAUTZ LATEX

WATCO DANISH OIL

KLEENSTRIP ROLLER AND BRUSH CLEANER
(MAX VOC 700 g/L)

MCCLOSKEY MARINE VARNISH

ALKYD RESIN

MINERAL SPIRITS

TUNE OIL PHENOLIC RESIN

EXEMPT MINERAL SPIRITS

REGULAR MINERAL SPIRITS

ACE ROYAL LATEX

ACE ACETONE

GREEN THUMB FORMALIN WASH/HAND WASH

TRALOMETRIN

d-trans ALLETHRIN

VICTOR ROACH KILLING POWDER

BORIC ACID (100%)

HEET

K-MART POWER STEERING FLUID

PETROLEUM HYDROCARBONS

(64742-53-6)(64741-88-1)

OLYMPIC WOOD STAIN

WD-40

OFF WARD DECK

PERMETHRIN

d-cis/trans ALLETHRIN

BARTLEY PASTE WOOD FILLER

NEPHELINE SYENITE

ALKYD RESIN

POLYURETHANE

CALCIUM CARBONATE

EXEMPT MINERAL SPIRITS, ...

SPRAY PAINT

DUTCH BOY ACRYLIC ENAMEL

RUST-OLEUM ENAMEL

MAR-HYDRE ONE STEP RUST CONVERTER

ACETONE

DIMETHYL ETHER

2-BUTOXYETHANOL

MCCLOSKEY CRACKLE

RUST OLEUM CACQUEL COATING

EMSON MIRACLE SHARP TOOL SHARPENING FLUID

FINISH LINE KO-TECH CLEANER/DEGREASER

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	1AB-9
Client:	Madison Kipp	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WIT	Tubing Information:	
Project #:	WJCC1283.1.9	Miscellaneous Equipment:	
Samplers:	AW/TA	Subcontractor:	
Sample Point Location:	ANCHOR, S wall	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/15/12	1310	-2.9					
3/16/12	1745	-1.9					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	5764
Flow Controller ID:	40571
Notes:	

Tracer Test information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	<u>NA</u> Yes No
Notes:	

General Observations/Notes:

PASSED SPLIT-VA TEST By Margaret H.

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-9
Client:	Madison Kipp	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI00283.1-9	Miscellaneous Equipment:	
Samplers:	AW/TA	Subcontractor:	
Sample Point Location:	on chair East wall	Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3-15-12	1300	-29.5					
3/16/12	1730	-6.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	34371
Flow Controller ID:	40039
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	N
Tracer Test Passed:	A Yes No
Notes:	

General Observations/Notes:

PASSED SHUT IN TEST
134 MARQUETTE

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSU-1-9
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.1.9	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/16/12	1637	-29.5					
3/16/12	1713	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	35136
Flow Controller ID:	FC 862
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.4
Final Helium Shroud:	83.1
Tracer Test Passed:	<u>Yes</u> No
Notes:	2.1% 2.1%

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSU-2-9
Client:	MADISON KIPP	Boring Equipment:	
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.1-9	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/16/12	1652	>30					
3/16/12	1722	-5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	34203
Flow Controller ID:	FC250
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.1
Final Helium Shroud:	84.3
Tracer Test Passed:	<u>Yes</u> No
Notes:	< 1 1/2

General Observations/Notes:

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.



Air Toxics

4/1/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203429A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



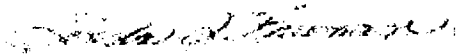
Air Toxics

WORK ORDER #: 1203429A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-9	Modified TO-15 SIM	19.0 "Hg	5 psi
02A	IAF-9	Modified TO-15 SIM	7.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 

DATE: 04/01/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203429A**

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

Sample IAB-9 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
- N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Texas

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-9

Lab ID#: 1203429A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.073	0.14	0.50	0.94
trans-1,2-Dichloroethene	0.36	5.5	1.4	22

Client Sample ID: IAF-9

Lab ID#: 1203429A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.035	0.035	0.24	0.24
trans-1,2-Dichloroethene	0.18	0.54	0.69	2.2



Air Toxics

Client Sample ID: IAB-9

Lab ID#: 1203429A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032211sim	Date of Collection: 3/15/12 5:45:00 PM
Dil. Factor:	3.65	Date of Analysis: 3/22/12 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.036	Not Detected	0.093	Not Detected
cis-1,2-Dichloroethene	0.073	Not Detected	0.29	Not Detected
Trichloroethene	0.073	Not Detected	0.39	Not Detected
Tetrachloroethene	0.073	0.14	0.50	0.94
trans-1,2-Dichloroethene	0.36	5.5	1.4	22

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: IAF-9

Lab ID#: 1203429A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032212sim	Date of Collection:	3/15/12 5:08:00 PM
Dil. Factor:	1.75	Date of Analysis:	3/22/12 05:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.035	0.24	0.24
trans-1,2-Dichloroethene	0.18	0.54	0.69	2.2

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203429A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032206sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130



ANALYSIS

Client Sample ID: CCV

Lab ID#: 1203429A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	102
Trichloroethene	95
Tetrachloroethene	88
trans-1,2-Dichloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203429A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	94
cis-1,2-Dichloroethene	102
Trichloroethene	90
Tetrachloroethene	87
trans-1,2-Dichloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203429A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	102
Trichloroethene	88
Tetrachloroethene	86
trans-1,2-Dichloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	104	70-130



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNINE.TRASK@ARCADIS.COM
 Address 1200 STAFFORD ST, #400 City MILWAUKEE State WI Zip 53202
 Phone 414-276-7742 Fax 414-276-7603

Project Info: P.O. # _____ Project # <u>WJ001283-0001-0009</u> Project Name <u>MADISON KIPP</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush	<small>Lab Use Only</small> Pressurized by: _____ Date: _____ Pressurization Gas: _____ <small>specify</small> N He
---	---	---

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>QA</u>	<u>IAB-9</u>	<u>5764</u>	<u>3/15/12</u>	<u>1745</u>	<u>TO-15</u>	<u>-21.0</u>	<u>-19.0</u>		
<u>QA</u>	<u>IAF-9</u>	<u>34371</u>	<u>3/15/12</u>	<u>1708</u>	<u>TO-15</u>	<u>-29.5</u>	<u>-6.5</u>		
	<u>SSV-1-9</u>	<u>35136</u>	<u>3/16/12</u>	<u>1637</u>	<u>TO-15</u>	<u>-29.5</u>	<u>-5.0</u>		
	<u>SSV-2-9</u>	<u>34203</u>	<u>3/16/12</u>	<u>1652</u>	<u>TO-15</u>	<u>-30.2</u>	<u>-5.0</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/19/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3.20.12 0920</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____

Notes:
 ONLY REPORT...
 PCE
 TCE
 VINYL CHLORIDE
 CS-1-2, OCE
 TMS-1,2, DE

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>[Signature]</u>		<u>NA</u>	<u>Good</u>	<u>Yes</u> No None	<u>1202640</u>



Air Toxics

4/1/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203429B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



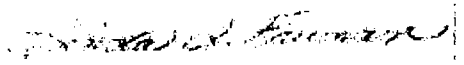
Air Toxics

WORK ORDER #: 1203429B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-9	Modified TO-15	6.0 "Hg	5 psi
04A	SSV-2-9	Modified TO-15	5.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP - CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11, Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203429B

Two 6 Liter Summa Canister samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

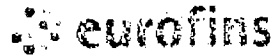
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

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

Client Sample ID: SSV-1-9

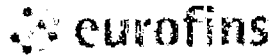
Lab ID#: 1203429B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.17	6.2	1.1	42

Client Sample ID: SSV-2-9

Lab ID#: 1203429B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.6	1.1	11



Air Toxics

Client Sample ID: SSV-1-9

Lab ID#: 1203429B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032219	Date of Collection:	3/16/12 4:37:00 PM
Dil. Factor:	1.68	Date of Analysis:	3/22/12 11:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
Tetrachloroethene	0.17	6.2	1.1	42

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: SSV-2-9

Lab ID#: 1203429B-04A

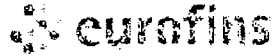
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032220	Date of Collection: 3/16/12 4:52:00 PM
Dil. Factor:	1.61	Date of Analysis: 3/23/12 07:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.6	1.1	11

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	109	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203429B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203429B-06A

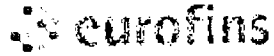
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	98
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	108
Trichloroethene	105
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS
Lab ID#: 1203429B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	109
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	112
Trichloroethene	98
Tetrachloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	111	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203429B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	103
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	113
Trichloroethene	96
Tetrachloroethene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNINE TRASK
 Collected by: (Print and Sign) T.M. A. FESS
 Company ARCADIS Email JENNINE.TRASK@ARCADIS.COM
 Address 126 N. JEFFERSON ST., SUITE 400 CITY MILWAUKEE STATE WI ZIP 53202
 Phone 414-276-7772 Fax 414-276-7605

Project Info: P.O. # _____ Project # <u>WJ001283.0000.0005.9</u> Project Name <u>MADISON KIPP</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	<small>Lab Use Only</small> Pressurized by _____ Date: _____ Pressurization Gas: _____ N ₂ He
---	---	--

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psf)
	IAR-9	5764	3/15/12	1745	TO-15	-21.0	-19.0		
	IAR-9	34371	3/15/12	1708	TO-15	-29.5	-6.5		
DBA	SSV-1-9	35136	3/16/12	1637	TO-15	-29.5	-5.0		
DBA	SSV-2-9	34203	3/16/12	1652	TO-15	>30.0	-5.0		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/19/12 1637</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/22/12 0920</u>	Notes: ONLY REPORT... PCE TCE UANL CHLORIDE CIS-1-2, DCE TRANS-1,2, DCE
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>[Signature]</u>		<u>NA</u>	<u>GOOD</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	<u>1203460</u>



**Madison-Kipp
Corporation**

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Telephone
608-244-3511

Website
www.Madison-Kipp.com

March 30, 2012

Mr. Ken Hennrich
142 S. Marquette Street
Madison, WI 53704

RE: Results of Air Testing
142 S. Marquette Street, Madison, WI 53704

Dear Mr. Hennrich:

On March 13 and 14, 2012, ARCADIS personnel, on behalf of Madison-Kipp, completed indoor air and sub-slab vapor sampling activities to measure levels of select volatile organic compounds (VOCs), below and/or within your home, located at 142 S. Marquette Street in Madison, Wisconsin. This work was completed in cooperation with and with the prior approval of the Wisconsin Department of Natural Resources (WDNR).

Specifically, the sampling was completed to test for the presence of tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene, and vinyl chloride. The homes that were sampled in your neighborhood were given a unique sample identification number when submitting the samples to the laboratory to ensure confidentiality. The following samples were collected from your home:

- SSV1-11 and SSV2-11 - Sub-slab samples collected on March 14, 2012. The sub-slab samples were collected from the sample points that were installed in the basement floor of your home.
- IAB-11 - Indoor air basement sample collected on March 13-14, 2012.
- IAF-11 - Indoor air first floor sample collected on March 13-14, 2012.

Based on the laboratory results (below), only PCE was detected in the sub-slab samples. The levels of PCE in the collected samples were below the sub-slab soil gas and indoor air Residential Action Levels provided by the WDNR. The WDNR Residential Action Level is based on the U.S. Environmental Protection Agency's Residential Air Screening Levels that represent health-protective concentrations an individual can be exposed to for 30 years for 24 hours a day.

Sample ID	Results (part per billion (ppbv))	Residential Action Level (ppbv)
SSV1-11	1.4	60
SSV2-11	0.52	60
IAB-11	Not Detected	6
IAF-11	Not Detected	6

Copies of the laboratory data and field notes are enclosed for your reference.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Meunier", written in a cursive style.

Mark Meunier
Madison-Kipp Corporation

cc: Michael Schmoller – WDNR
Dr. Henry Nehls-Lowe – WDHS
Norman Berger, Esq.
David A. Crass, Esq.

Attachments:
Laboratory Analytical Report
Field Notes

INDOOR AIR QUALITY BUILDING SURVEY

Date: 3/7/12 Project #: WJ001283

Address: 148 MARQUETTE ST. MADISON WI

Property Contact: KEN HEURICH

Phone: Home: (231) 620-4198 Work: () Cell: ()

Building Occupants: Children <13 Children age 13-18 Adults

RENTAL (UPSTAIRS) AT LEAST ONE ADULT UPSTAIRS, AT LEAST 1 ADULT DOWNSTAIRS

Building Construction Characteristics: (Circle appropriate description)

- Single Family Multiple Family School Commercial
Ranch 2-Family Raised Ranch Duplex Colonial # of units
Split Level Condominium Mobile Home Other (specify)

General Description of Building Construction Materials, especially new materials:

WOOD FRAME, VINYL SIDING ON BACK, FRONT IS BRICK, 2nd STORY SLATE TILE

How many occupied stories does the building have? 2

Has the building been weatherized with any of the following? (Circle all that apply)

- Insulation Storm Windows Energy-Efficient Windows
Other (specify)

What type of basement does the building have? (Circle all that apply)

- Full basement Crawlspace Slab-on-Grade Other (specify)

Basement Size 408 (ft^2)

Surveyor's Initials: [Signature]

INDOOR AIR QUALITY BUILDING SURVEY

Describe Basement Floor and Walls: _____

CONCRETE WALLS, CONCRETE FLOOR

Moisture: Always Dry Always Wet Frequently Wet Sometimes Wet

EVIDENCE OF WATER (STAINS ROTTING)

Is a basement sump present? (Y/N) N Is a sump pump present? (Y/N) N (circle one)

Does the basement have any preferential pathways that might permit soil vapor entry? (Circle all that apply)

Visible Cracks Unsealed Pipes/Utility Conduits Sump pumps

What type of ground cover surrounds the outside of building? (Circle all that apply)

Grass Concrete Asphalt Other (specify) _____

Heating and Ventilation System(s) Present:

What type of heating system(s) is (are) used in this building? (Circle all that apply)

Hot Air Circulation Heat Pump Steam Radiation Wood Stove
Hot Air Radiation Unvented Kerosene heater Electric Baseboard

Other (specify): _____

What type (s) of fuel(s) are used in this building? (Circle all that apply)

Natural Gas Electric Coal Other (specify): _____
Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in the building? (Circle all that apply)

Central Air Conditioning Bathroom Fan Kitchen fan
Individual Air Conditioning Units Air-to-Air Heat Exchanger
Open windows Other (specify): _____

Septic system? Yes / Yes (but not used) No

Irrigation/private well? Yes / Yes (but not used) No

Existing subsurface depressurization (radon) system in place? Yes No

If yes, is it running? Yes / No

Surveyor's Initials: AAA

INDOOR AIR QUALITY BUILDING SURVEY

Sources of Chemical Contaminants:

Which of these items are present in the building?

Potential Sources Location(s)	Check if Present	Removed Prior to Sampling? (Yes / No / NA)
Paints or paint thinners	✓	
Gas-powered equipment		
Gasoline storage cans	✓ (LIGHTER FLUID)	
Cleaning solvents		
Air fresheners		
Oven cleaners		
Carpet/upholstery cleaners	✓	
Hairspray		
Nail polish/polish remover		
Bathroom cleaner		
Appliance cleaner		
Furniture/floor polish		
Moth balls		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes		
Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals)	PAINT STRIPPER PLASTIC WRAP	
Scented trees, potpourri, etc.		
Other:		
Other:		
Other:		

Do one or more smokers occupy this building on a regular basis (Y/N)?
How often? _____

Has anybody smoked in the building in the last 48 hours (Y/N)?

Does the building have an attached garage (Y/N)? If so, is a car usually parked in the garage (Y/N)?

Do the occupants of the building frequently have their clothes dry-cleaned (Y/N)?

Was there any recent remodeling or painting done in the building (Y/N)?

Surveyor's Initials: MSA

INDOOR AIR QUALITY BUILDING SURVEY

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard) (Y/N)?

Are there any new upholstery, drapes or other textiles in the building (Y/N)?

Have the occupants ever noticed any unusual odors in the building? (Y/N)?
If yes, describe odors, location(s), and conditions that seem to affect odors (especially rain, temperature, wind):

Any known spills of a chemical immediately outside or inside the building? (Y/N)?
If yes, describe (location, age, type of chemical, any actions to clean up):

Has the building been treated (inside or outside) with any insecticides/pesticides(Y/N)? If so, what chemicals are used and how often are they applied:

Outdoor Sources of Contamination:

Nearby Gasoline Stations (distance and direction):

Surveyor's Initials: 249

INDOOR AIR QUALITY BUILDING SURVEY

Industrial Stack Emissions (distance and direction):

Automotive emission sources (e.g., highway; bus stop; high-traffic area):

Weather Conditions During Sampling:

Outside Temperature (°F): _____
Prevailing wind speed and direction: _____
Describe the general weather conditions (e.g., sunny, cloudy, rain): _____
Precipitation >0.1 inches within 12 hours preceding the sampling event (Y/N)? _____
General Comments: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

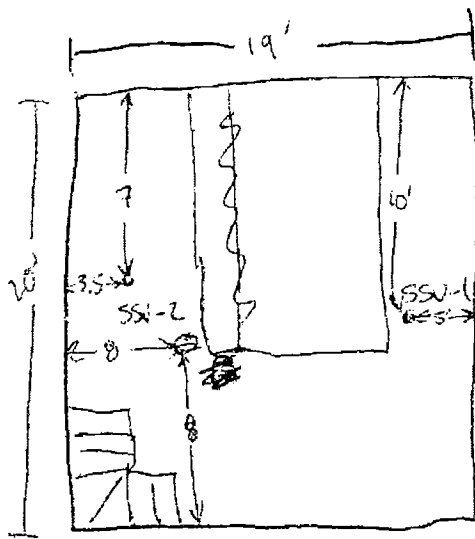
The responses documented on this survey are true, accurate and complete to the best of my knowledge and ability.

Name of Surveyor

Signature

Date

Surveyor's Initials: TA



↑
N

RUST-OLEUM SPRAY PAINT

TOLUENE

ACETONE

XYLENES

RUST-OLEUM

ACETONE

XYLENES

ACE STRIPPER

METHANOL

METHYLENE GLYCOL

N-BUTANE

PROPANE

SURFACTANT

WP-40

PETROLEUM DISTILLATES

KINGSFORD CHARCOAL LIGHTER FLUID

DAP PINK STIL WOOD

ACETONE

N-BUTYL ACETATE

ISOPROPANOL

TURTLE MAX OXY INTERIOR 1

CUTTER BACKYARD BUG CONTROL

LAMBDA-CYHALOTHRIN

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSV-1-142
Client:	MADISON KIPP	Boring Equipment:	SSU-1-11
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.0001.00009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	EAST SIDE	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	200mL @ 200m/min

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
3/19/12	1105	-29				29.91	
3/14/12	1100	-55				29.91	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <u>6L</u>
Canister ID:	12682
Flow Controller ID:	FL00507 W01D
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95.4
Final Helium Shroud:	83.7
Tracer Test Passed:	<u>Yes</u> No
Notes:	21% He in teller bag

General Observations/Notes:

Passed shut-in test.
NO MVAQUE 77 ST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	SSU-2 (T42)
Client:	MADISON KIPP	Boring Equipment:	SSU-2-11
Project:	MADISON KIPP	Sealant:	
Location:	MADISON WI	Tubing Information:	
Project #:	WI001283.0001.00009	Miscellaneous Equipment:	
Samplers:	TA/AW	Subcontractor:	
Sample Point Location:	WEST SIDE	Equipment:	
Sampling Depth:	SUB SLAB	Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	200 mL @ 200 mL/min

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/14/12	1024	-30				29.91	
3/14/12	1129	-6.5				29.91	

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	34189
Flow Controller ID:	NO TO FC865
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	95% ¹⁰
Final Helium Shroud:	78% ¹⁰
Tracer Test Passed:	(Yes) No
Notes:	2% He in tool bag

General Observations/Notes:

PASSED SMT - IN TEST
SPLIT SAMPLE WITH WDH
INDS MARIQUETTE ST

Approximating One-Well Volume (for purging):

When using 1¼-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAF-142
Client:		Boring Equipment:	IAF-11
Project:		Sealant:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/13/12	1021	-29				30.02	
3/14/12	921	-6					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L <input checked="" type="radio"/> 5L
Canister ID:	34732
Flow Controller ID:	40291
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	N
Tracer Test Passed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Notes:	

General Observations/Notes:

PASSED SHUT-IN TEST
142 MARQUETTE ST.

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

Madison Kipp Corporation		Soil Vapor Sample Collection Log	
		Sample ID:	IAB-11 142
Client:		Boring Equipment:	IAB-11
Project:		Sealant:	
Location:		Tubing Information:	
Project #:		Miscellaneous Equipment:	
Samplers:		Subcontractor:	
Sample Point Location:		Equipment:	
Sampling Depth:		Moisture Content:	
Time and Date of Installation:		Approximate Purge Volume:	

Instrument Readings:

Date	Time	Canister Vacuum (a) (Inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (Inches of Hg)	PID (ppb)
3/13/12	1019	-30				30.07	
3/14/12	924	-36					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1L 2.7L (6L)
Canister ID:	34447
Flow Controller ID:	40425
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:		
Final Helium Shroud:	N/A	
Tracer Test Passed:	Yes	No
Notes:		

General Observations/Notes:

PASSED SMT-INTST
162 MARQUETTE ST

Approximating One-Well Volume (for purging):

When using 1/4-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.



AIR TOXICS

3/28/2012
Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203371B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,

Ausha Scott
Project Manager



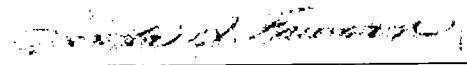
Air Toxics

WORK ORDER #: 1203371B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-11	Modified TO-15	5.2 "Hg	5 psi
04A	SSV-2-11	Modified TO-15	4.6 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 03/28/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203371B

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

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

Client Sample ID: SSV-1-11

Lab ID#: 1203371B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.4	1.1	9.7

Client Sample ID: SSV-2-11

Lab ID#: 1203371B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.52	1.1	3.5



Air Test

Client Sample ID: SSV-1-11

Lab ID#: 1203371B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032113	Date of Collection:	3/14/12 11:05:00 AM
Dil. Factor:	1.62	Date of Analysis:	3/21/12 04:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.87	Not Detected
Tetrachloroethene	0.16	1.4	1.1	9.7

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: SSV-2-11

Lab ID#: 1203371B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032116	Date of Collection:	3/14/12 10:24:00 AM
Dil. Factor:	1.58	Date of Analysis:	3/21/12 06:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Trichloroethene	0.16	Not Detected	0.85	Not Detected
Tetrachloroethene	0.16	0.52	1.1	3.5

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203371B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 11:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203371B-06A

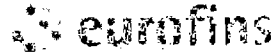
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 08:58 AM

Compound	%Recovery
Vinyl Chloride	91
trans-1,2-Dichloroethene	90
cis-1,2-Dichloroethene	93
Trichloroethene	105
Tetrachloroethene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203371B-07A

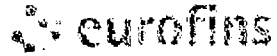
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032103	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 09:48 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	108
Trichloroethene	110
Tetrachloroethene	115

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130



All Tables

Client Sample ID: LCSD

Lab ID#: 1203371B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 10:32 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	112
Trichloroethene	109
Tetrachloroethene	115

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	107	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

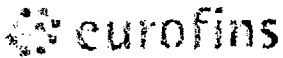
Project Manager JENNIFER TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ARCADIS Email JENNIFER.TRASK@ARCADIS.COM
 Address 126 W. JEFFERSON ST., SUITE 100 City MADISON State CA Zip 95122
 Phone 415-276-7742 Fax 415-276-7603

Project Info: P.O. # _____ Project # <u>WJCO01283.0001.00009</u> Project Name <u>MADISON KIPP</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush specify _____	Lab Use Only: Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psl)
	IAB-11	34447	3/14/12	924	TO-15	-30.0	-8.0		
	IAF-11	34732	3/14/12	921	TO-15	-29.0	-6.0		
03A	SSV-1-11	12682	3/14/12	1105	TO-15	-29.0	-5.5		
04A	SSV-2-11	34189	3/14/12	1024	TO-15	-30.0	-6.5		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/15/12 1448</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/16/12 0900</u>	Notes: <u>ONLY REPORT ---</u> <u>PCE</u> <u>TCE</u> <u>VIALS CALORIDE</u> <u>CIS-1,2 - OCE</u> <u>TRANS-1,2 - PCE</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>FED EX</u>	Air Bill # _____	Temp (°C) <u>NA</u>	Condition <u>GOOD</u>	Custody Seals Intact? <u>Yes</u> No None	Work Order # <u>1203371</u>
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Air Toxics

WORK ORDER #: 1203371A

Work Order Summary

CLIENT: Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800
Indianapolis, IN 46204

BILL TO: Accounts Payable
Arcadis U.S., Inc.
630 Plaza Drive
Suite 600
Highlands Ranch, CO 80129

PHONE: 317.236.5207

P.O. # WI001283.0001.00009

FAX: 317-231-6514

PROJECT # WI001283.0001.00009 MADISON KIPP

DATE RECEIVED: 03/16/2012

CONTACT: Ausha Scott

DATE COMPLETED: 03/27/2012

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-11	Modified TO-15 SIM	7.0 "Hg	5 psi
02A	IAF-11	Modified TO-15 SIM	7.8 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 

DATE: 03/29/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203371A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ - Non-detected compound associated with low bias in the CCV and/or LCS.

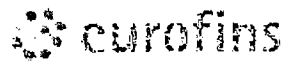
N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-11

Lab ID#: 1203371A-01A

No Detections Were Found.

Client Sample ID: IAF-11

Lab ID#: 1203371A-02A

No Detections Were Found.



Air Pollution

Client Sample ID: IAB-11

Lab ID#: 1203371A-01A

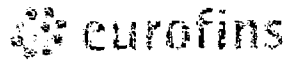
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032007sim	Date of Collection:	3/14/12 9:24:00 AM
Dil. Factor:	1.75	Date of Analysis:	3/20/12 01:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: IAF-11

Lab ID#: 1203371A-02A

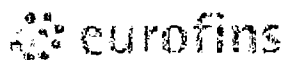
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032008sim	Date of Collection:	3/14/12 9:21:00 AM
Dil. Factor:	1.81	Date of Analysis:	3/20/12 02:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203371A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032006sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/20/12 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203371A-04A

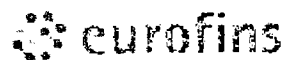
MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032002slm	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/20/12 10:02 AM

<u>Compound</u>	<u>%Recovery</u>
Vinyl Chloride	86
cis-1,2-Dichloroethene	92
Trichloroethene	92
Tetrachloroethene	90
trans-1,2-Dichloroethene	92

Container Type: NA - Not Applicable

<u>Surrogates</u>	<u>%Recovery</u>	<u>Method Limits</u>
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	111	70-130



Air Emissions

Client Sample ID: LCS

Lab ID#: 1203371A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032003sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	98
cis-1,2-Dichloroethene	105
Trichloroethene	95
Tetrachloroethene	103
trans-1,2-Dichloroethene	117

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203371A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032004sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	100
cis-1,2-Dichloroethene	106
Trichloroethene	96
Tetrachloroethene	104
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Page 1 of 1

Project Manager JENNIFER TRASK

Collected by: (Print and Sign) TIM ALESSI

Company ARCADIS Email JENNIFER.TRASK@ARCADIS-USA.COM

Address 128 N. JEFFERSON ST., STE 400 City MILWAUKEE State WI Zip 53202

Phone 414-276-7742 Fax 414-276-7603

Project Info: P.O. # _____ Project # <u>WJCC01283 0001 00009</u> Project Name <u>MADISON KIPP</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	<small>LAB Use Only</small> Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (rel)
<u>01A</u>	<u>IAB-11</u>	<u>34447</u>	<u>3/14/12</u>	<u>924</u>	<u>TO-15</u>	<u>-30.0</u>	<u>-8.0</u>		
<u>02A</u>	<u>IAF-11</u>	<u>34732</u>	<u>3/14/12</u>	<u>921</u>	<u>TO-15</u>	<u>-29.0</u>	<u>-6.0</u>		
	<u>SSV-1-11</u>	<u>12682</u>	<u>3/14/12</u>	<u>1105</u>	<u>TO-15</u>	<u>-29.0</u>	<u>-5.5</u>		
	<u>SSV-2-11</u>	<u>34189</u>	<u>3/14/12</u>	<u>1024</u>	<u>TO-15</u>	<u>-20.0</u>	<u>-6.5</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/15/12 1448</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/16/12 0900</u>	Notes: <u>ONLY REPORT ---</u> <u>PCE</u> <u>TCE</u> <u>VOLVIL CHLORIDE</u> <u>CIS-1,2-DCE</u> <u>TRANS-1,2-DCE</u>
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>Red Fox</u>		<u>NA</u>	<u>GOOD</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	<u>1203371</u>

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203430A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203430A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-1	Modified TO-15 SIM	5.5 "Hg	5 psi
02A	IAF-1	Modified TO-15 SIM	5.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203430A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: IAB-1

Lab ID#: 1203430A-01A

No Detections Were Found.

Client Sample ID: IAF-1

Lab ID#: 1203430A-02A

No Detections Were Found.



Air Toxics

Client Sample ID: IAB-1

Lab ID#: 1203430A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032213sim	Date of Collection: 3/16/12 8:33:00 AM
Dil. Factor:	1.64	Date of Analysis: 3/22/12 06:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: IAF-1

Lab ID#: 1203430A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032214sim	Date of Collection: 3/16/12 8:35:00 AM
Dil. Factor:	1.64	Date of Analysis: 3/22/12 07:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203430A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032206sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203430A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	102
Trichloroethene	95
Tetrachloroethene	88
trans-1,2-Dichloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203430A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	94
cis-1,2-Dichloroethene	102
Trichloroethene	90
Tetrachloroethene	87
trans-1,2-Dichloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203430A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	102
Trichloroethene	88
Tetrachloroethene	86
trans-1,2-Dichloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	104	70-130

4/20/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1204335

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 4/17/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1204335

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00012
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	04/17/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/20/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SSV-1-1	Modified TO-15	3.5 "Hg	5 psi
02A	SSV-2-1	Modified TO-15	2.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:  DATE: 04/20/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1204335

Two 6 Liter Summa Canister samples were received on April 17, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

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

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-1

Lab ID#: 1204335-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.15	0.96	1.0	6.5

Client Sample ID: SSV-2-1

Lab ID#: 1204335-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.15	0.18	0.99	1.2



Air Toxics

Client Sample ID: SSV-1-1

Lab ID#: 1204335-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041806	Date of Collection:	4/13/12 4:45:00 PM
Dil. Factor:	1.52	Date of Analysis:	4/18/12 05:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.39	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Trichloroethene	0.15	Not Detected	0.82	Not Detected
Tetrachloroethene	0.15	0.96	1.0	6.5

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: SSV-2-1

Lab ID#: 1204335-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041807	Date of Collection: 4/13/12 4:22:00 PM
Dil. Factor:	1.46	Date of Analysis: 4/18/12 05:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.37	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Trichloroethene	0.15	Not Detected	0.78	Not Detected
Tetrachloroethene	0.15	0.18	0.99	1.2

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: Lab Blank

Lab ID#: 1204335-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/18/12 04:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: CCV

Lab ID#: 1204335-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/18/12 01:21 PM

Compound	%Recovery
Vinyl Chloride	100
trans-1,2-Dichloroethene	93
cis-1,2-Dichloroethene	94
Trichloroethene	98
Tetrachloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1204335-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/18/12 02:15 PM

Compound	%Recovery
Vinyl Chloride	117
trans-1,2-Dichloroethene	121
cis-1,2-Dichloroethene	109
Trichloroethene	107
Tetrachloroethene	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1204335-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v041804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/18/12 03:05 PM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	117
cis-1,2-Dichloroethene	105
Trichloroethene	106
Tetrachloroethene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203428A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203428A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-3	Modified TO-15 SIM	5.0 "Hg	5 psi
02A	IAF-3	Modified TO-15 SIM	5.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203428A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+ - 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-3

Lab ID#: 1203428A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.032	0.060	0.22	0.41

Client Sample ID: IAF-3

Lab ID#: 1203428A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.033	0.060	0.22	0.41



Air Toxics

Client Sample ID: IAB-3

Lab ID#: 1203428A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032219sim	Date of Collection: 3/15/12 10:06:00 AM
Dil. Factor:	1.61	Date of Analysis: 3/22/12 08:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.060	0.22	0.41
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: IAF-3

Lab ID#: 1203428A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032220sim	Date of Collection: 3/15/12 10:04:00 AM
Dil. Factor:	1.64	Date of Analysis: 3/22/12 09:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.060	0.22	0.41
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203428A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032207sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203428A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 08:39 AM

Compound	%Recovery
Vinyl Chloride	80
cis-1,2-Dichloroethene	81
Trichloroethene	83
Tetrachloroethene	85
trans-1,2-Dichloroethene	83

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 1203428A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 09:20 AM

Compound	%Recovery
Vinyl Chloride	80
cis-1,2-Dichloroethene	80
Trichloroethene	80
Tetrachloroethene	82
trans-1,2-Dichloroethene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203428A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a032204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 09:57 AM

Compound	%Recovery
Vinyl Chloride	81
cis-1,2-Dichloroethene	80
Trichloroethene	81
Tetrachloroethene	82
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130



CHAIN-OF-CUSTODY RECORD

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 (916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager JENNIFER TRASK
 Collected by: (Print and Sign) TIM ALESSI
 Company ALCAAD15 Email JENNIFER.TRASK@CALADCS.COM
 Address 1200 STEPHENSON ST, STE 400 CITY AVENUE State CA Zip 95602
 Phone 914-236-7742 Fax 914-276-7603

Project Info:
 P.O. # _____
 Project # WJ00285.0001.00009
 Project Name MADISON KIPP
 Turn Around Time: Normal Rush
 Lab Use Only: Pressurized by: _____ Date: _____
 Pressurization Gas: _____
 specify _____ N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt Final (psi)
<u>01A</u>	<u>IAB-3</u>	<u>431</u>	<u>3/15/12</u>	<u>1006</u>	<u>TD-15</u>	<u>-300</u>	<u>-6.5</u>	
<u>02A</u>	<u>IAF-3</u>	<u>R-18</u>	<u>3/15/12</u>	<u>1004</u>	<u>TD-15</u>	<u>-27.0</u>	<u>-5.0</u>	
<u>03</u>	<u>SSU-1-3</u>	<u>3146</u>	<u>3/17/12</u>	<u>1320</u>	<u>TD-15</u>	<u>-29.0</u>	<u>-4.0</u>	
		<u>33984</u>	<u>3/16/12</u>	<u>1116</u>	<u>TD-15</u>	<u>-29.5</u>	<u>-5.0</u>	
Notes:								
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time					
<u>[Signature]</u>	<u>3/14/12 1637</u>	<u>[Signature]</u>	<u>3.20.12 0920</u>					
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time					
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time					
Lab Use Only		Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?		Work Order #
		<u>[Signature]</u>		<u>NA</u>	<u>Good</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None		<u>1203423</u>

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203428B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203428B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-3	Modified TO-15	5.0 "Hg	5 psi
04A	SSV-2-3	Modified TO-15	5.5 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203428B

Two 6 Liter Summa Canister samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-3

Lab ID#: 1203428B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.5	1.1	10

Client Sample ID: SSV-2-3

Lab ID#: 1203428B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.28	1.1	1.9



Air Toxics

Client Sample ID: SSV-1-3

Lab ID#: 1203428B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032217	Date of Collection:	3/17/12 1:20:00 PM	
Dil. Factor:	1.61	Date of Analysis:	3/22/12 10:08 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.5	1.1	10

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SSV-2-3

Lab ID#: 1203428B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032218	Date of Collection:	3/16/12 11:16:00 AM	
Dil. Factor:	1.64	Date of Analysis:	3/22/12 10:53 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
Tetrachloroethene	0.16	0.28	1.1	1.9

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	111	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203428B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203428B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	98
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	108
Trichloroethene	105
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203428B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	109
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	112
Trichloroethene	98
Tetrachloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	111	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203428B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	103
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	113
Trichloroethene	96
Tetrachloroethene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

4/13/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name:

Project #:

Workorder #: 1204018A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 4/2/2012 at Air Toxics Ltd.

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

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

Regards,



Ausha Scott


Project Manager

WORK ORDER #: 1204018A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	
DATE RECEIVED:	04/02/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/13/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-4	Modified TO-15 SIM	0.5 "Hg	5 psi
02A	IAF-4	Modified TO-15 SIM	3.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:  DATE: 04/13/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

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LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1204018A

Two 6 Liter Summa Canister (SIM Certified) samples were received on April 02, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
- N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-4

Lab ID#: 1204018A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.027	0.084	0.18	0.57

Client Sample ID: IAF-4

Lab ID#: 1204018A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.030	0.092	0.20	0.63



Air Toxics

Client Sample ID: IAB-4

Lab ID#: 1204018A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040311sim	Date of Collection: 3/29/12 9:45:00 AM
Dil. Factor:	1.36	Date of Analysis: 4/3/12 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected
cis-1,2-Dichloroethene	0.027	Not Detected	0.11	Not Detected
Trichloroethene	0.027	Not Detected	0.15	Not Detected
Tetrachloroethene	0.027	0.084	0.18	0.57
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: IAF-4

Lab ID#: 1204018A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040312sim	Date of Collection:	3/29/12 10:50:00 AM	
Dil. Factor:	1.49	Date of Analysis:	4/3/12 05:47 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
Trichloroethene	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	0.092	0.20	0.63
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: Lab Blank

Lab ID#: 1204018A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040307sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 01:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: CCV

Lab ID#: 1204018A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040303sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 10:12 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	85
Trichloroethene	86
Tetrachloroethene	88
trans-1,2-Dichloroethene	87

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: LCS

Lab ID#: 1204018A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040304sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:02 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	83
Trichloroethene	84
Tetrachloroethene	84
trans-1,2-Dichloroethene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: LCSD

Lab ID#: 1204018A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	a040305sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:53 AM

Compound	%Recovery
Vinyl Chloride	84
cis-1,2-Dichloroethene	82
Trichloroethene	82
Tetrachloroethene	83
trans-1,2-Dichloroethene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

4/13/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name:

Project #:

Workorder #: 1204018B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 4/2/2012 at Air Toxics Ltd.

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

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

Regards,



Ausha Scott


Project Manager

WORK ORDER #: 1204018B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	
DATE RECEIVED:	04/02/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/13/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-4	Modified TO-15	5.0 "Hg	5 psi
04A	SSV-2-4	Modified TO-15	5.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/13/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1204018B

Two 6 Liter Summa Canister samples were received on April 02, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-4

Lab ID#: 1204018B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.7	1.1	12

Client Sample ID: SSV-2-4

Lab ID#: 1204018B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.16	0.27	0.86	1.5
Tetrachloroethene	0.16	0.50	1.1	3.4



Air Toxics

Client Sample ID: SSV-1-4

Lab ID#: 1204018B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040317	Date of Collection:	3/29/12 10:45:00 AM	
Dil. Factor:	1.61	Date of Analysis:	4/3/12 09:48 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.7	1.1	12

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	78-134
Toluene-d8	100	91-106
4-Bromofluorobenzene	98	87-118



Air Toxics

Client Sample ID: SSV-2-4

Lab ID#: 1204018B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040318	Date of Collection:	3/29/12 10:40:00 AM
Dil. Factor:	1.61	Date of Analysis:	4/3/12 10:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	0.27	0.86	1.5
Tetrachloroethene	0.16	0.50	1.1	3.4

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	78-134
Toluene-d8	100	91-106
4-Bromofluorobenzene	101	87-118

Client Sample ID: Lab Blank

Lab ID#: 1204018B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040307	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 01:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1204018B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 10:12 AM

Compound	%Recovery
Vinyl Chloride	97
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	91
Trichloroethene	94
Tetrachloroethene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1204018B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:02 AM

Compound	%Recovery
Vinyl Chloride	96
trans-1,2-Dichloroethene	98
cis-1,2-Dichloroethene	91
Trichloroethene	88
Tetrachloroethene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1204018B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a040305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/12 11:53 AM

Compound	%Recovery
Vinyl Chloride	92
trans-1,2-Dichloroethene	94
cis-1,2-Dichloroethene	85
Trichloroethene	70
Tetrachloroethene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	79	70-130
4-Bromofluorobenzene	101	70-130

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203369A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1203369A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-5	Modified TO-15 SIM	6.2 "Hg	5 psi
02A	IAF-5	Modified TO-15 SIM	9.8 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:  DATE: 03/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203369A**

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-5

Lab ID#: 1203369A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.034	0.14	0.23	0.92

Client Sample ID: IAF-5

Lab ID#: 1203369A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.040	0.061	0.27	0.41



Air Toxics

Client Sample ID: IAB-5

Lab ID#: 1203369A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031919sim	Date of Collection: 3/13/12 3:10:00 PM
Dil. Factor:	1.69	Date of Analysis: 3/19/12 09:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.14	0.23	0.92
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: IAF-5

Lab ID#: 1203369A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031920sim	Date of Collection: 3/13/12 3:08:00 PM
Dil. Factor:	1.99	Date of Analysis: 3/19/12 10:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.020	Not Detected	0.051	Not Detected
cis-1,2-Dichloroethene	0.040	Not Detected	0.16	Not Detected
Trichloroethene	0.040	Not Detected	0.21	Not Detected
Tetrachloroethene	0.040	0.061	0.27	0.41
trans-1,2-Dichloroethene	0.20	Not Detected	0.79	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203369A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031906sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 12:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 1203369A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031902sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 09:36 AM

Compound	%Recovery
Vinyl Chloride	85
cis-1,2-Dichloroethene	91
Trichloroethene	90
Tetrachloroethene	89
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203369A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031903sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 10:26 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	108
Trichloroethene	97
Tetrachloroethene	105
trans-1,2-Dichloroethene	120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203369A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031904sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 11:17 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	106
Trichloroethene	95
Tetrachloroethene	102
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203369B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203369B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-5	Modified TO-15	5.0 "Hg	5 psi
04A	SSV-2-5	Modified TO-15	5.6 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:  DATE: 03/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203369B

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-5

Lab ID#: 1203369B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.4	1.1	9.3

Client Sample ID: SSV-2-5

Lab ID#: 1203369B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.32	1.1	2.2



Air Toxics

Client Sample ID: SSV-1-5

Lab ID#: 1203369B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032013	Date of Collection:	3/13/12 4:24:00 PM
Dil. Factor:	1.61	Date of Analysis:	3/20/12 06:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.4	1.1	9.3

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: SSV-2-5

Lab ID#: 1203369B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032015	Date of Collection:	3/13/12 4:50:00 PM
Dil. Factor:	1.65	Date of Analysis:	3/20/12 08:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.89	Not Detected
Tetrachloroethene	0.16	0.32	1.1	2.2

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203369B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032006	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	3/20/12 12:43 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: CCV

Lab ID#: 1203369B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:02 AM

Compound	%Recovery
Vinyl Chloride	93
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	94
Trichloroethene	106
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203369B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	111
Trichloroethene	108
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203369B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	109
Trichloroethene	111
Tetrachloroethene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203427A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203427A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-6	Modified TO-15 SIM	7.5 "Hg	5 psi
02A	IAF-6	Modified TO-15 SIM	7.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203427A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-6

Lab ID#: 1203427A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.036	0.046	0.24	0.31

Client Sample ID: IAF-6

Lab ID#: 1203427A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.036	0.045	0.24	0.30



Air Toxics

Client Sample ID: IAB-6

Lab ID#: 1203427A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032122sim	Date of Collection: 3/15/12 8:14:00 AM
Dil. Factor:	1.79	Date of Analysis: 3/21/12 11:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	0.046	0.24	0.31
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: IAF-6

Lab ID#: 1203427A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032123sim	Date of Collection: 3/15/12 8:11:00 AM
Dil. Factor:	1.79	Date of Analysis: 3/21/12 11:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	0.045	0.24	0.30
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203427A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032106sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 11:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203427A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032102sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 08:58 AM

Compound	%Recovery
Vinyl Chloride	84
cis-1,2-Dichloroethene	91
Trichloroethene	92
Tetrachloroethene	90
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203427A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032103sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 09:48 AM

Compound	%Recovery
Vinyl Chloride	100
cis-1,2-Dichloroethene	106
Trichloroethene	96
Tetrachloroethene	103
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203427A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032104sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 10:32 AM

Compound	%Recovery
Vinyl Chloride	100
cis-1,2-Dichloroethene	106
Trichloroethene	96
Tetrachloroethene	104
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203427B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203427B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-6	Modified TO-15	5.5 "Hg	5 psi
04A	SSV-2-6	Modified TO-15	6.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203427B

Two 6 Liter Summa Canister samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-6

Lab ID#: 1203427B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	5.8	1.1	40

Client Sample ID: SSV-2-6

Lab ID#: 1203427B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.17	0.79	1.1	5.3



Air Toxics

Client Sample ID: SSV-1-6

Lab ID#: 1203427B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032215	Date of Collection:	3/16/12 7:43:00 AM	
Dil. Factor:	1.64	Date of Analysis:	3/22/12 08:09 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
Tetrachloroethene	0.16	5.8	1.1	40

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: SSV-2-6

Lab ID#: 1203427B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032216	Date of Collection:	3/16/12 8:41:00 AM	
Dil. Factor:	1.68	Date of Analysis:	3/22/12 09:02 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
Tetrachloroethene	0.17	0.79	1.1	5.3

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	113	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203427B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032206	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203427B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	98
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	108
Trichloroethene	105
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203427B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	109
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	112
Trichloroethene	98
Tetrachloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	111	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203427B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	103
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	113
Trichloroethene	96
Tetrachloroethene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203370A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203370A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-7	Modified TO-15 SIM	5.4 "Hg	5 psi
02A	IAF-7	Modified TO-15 SIM	9.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:  DATE: 03/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203370A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+ - 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: IAB-7

Lab ID#: 1203370A-01A

No Detections Were Found.

Client Sample ID: IAF-7

Lab ID#: 1203370A-02A

No Detections Were Found.



Air Toxics

Client Sample ID: IAB-7

Lab ID#: 1203370A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031921sim	Date of Collection: 3/13/12 5:03:00 PM
Dil. Factor:	1.63	Date of Analysis: 3/19/12 10:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: IAF-7

Lab ID#: 1203370A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031922sim	Date of Collection: 3/13/12 5:02:00 PM
Dil. Factor:	1.91	Date of Analysis: 3/20/12 08:43 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.019	Not Detected	0.049	Not Detected
cis-1,2-Dichloroethene	0.038	Not Detected	0.15	Not Detected
Trichloroethene	0.038	Not Detected	0.20	Not Detected
Tetrachloroethene	0.038	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1203370A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031906sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/19/12 12:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 1203370A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031902sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 09:36 AM

Compound	%Recovery
Vinyl Chloride	85
cis-1,2-Dichloroethene	91
Trichloroethene	90
Tetrachloroethene	89
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203370A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031903sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 10:26 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	108
Trichloroethene	97
Tetrachloroethene	105
trans-1,2-Dichloroethene	120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203370A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031904sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 11:17 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	106
Trichloroethene	95
Tetrachloroethene	102
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

3/30/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203370B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203370B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/30/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-7	Modified TO-15	4.4 "Hg	5 psi
04A	SSV-2-7	Modified TO-15	3.6 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:  DATE: 03/30/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203370B

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-7

Lab ID#: 1203370B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.18	1.1	1.2

Client Sample ID: SSV-2-7

Lab ID#: 1203370B-04A

No Detections Were Found.



Air Toxics

Client Sample ID: SSV-1-7

Lab ID#: 1203370B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032016	Date of Collection:	3/14/12 6:20:00 PM	
Dil. Factor:	1.57	Date of Analysis:	3/20/12 08:45 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Trichloroethene	0.16	Not Detected	0.84	Not Detected
Tetrachloroethene	0.16	0.18	1.1	1.2

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: SSV-2-7

Lab ID#: 1203370B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032019	Date of Collection:	3/14/12 6:25:00 PM
Dil. Factor:	1.52	Date of Analysis:	3/20/12 10:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.39	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
Trichloroethene	0.15	Not Detected	0.82	Not Detected
Tetrachloroethene	0.15	Not Detected	1.0	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203370B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203370B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:02 AM

Compound	%Recovery
Vinyl Chloride	93
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	94
Trichloroethene	106
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203370B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	111
Trichloroethene	108
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203370B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	109
Trichloroethene	111
Tetrachloroethene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203368A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203368A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-8	Modified TO-15 SIM	7.6 "Hg	5 psi
02A	IAF-8	Modified TO-15 SIM	11.2 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:  DATE: 03/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203368A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: IAB-8

Lab ID#: 1203368A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.036	0.036	0.24	0.25

Client Sample ID: IAF-8

Lab ID#: 1203368A-02A

No Detections Were Found.



Air Toxics

Client Sample ID: IAB-8

Lab ID#: 1203368A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031917sim	Date of Collection: 3/14/12 7:02:00 AM
Dil. Factor:	1.79	Date of Analysis: 3/19/12 08:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	0.036	0.24	0.25
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: IAF-8

Lab ID#: 1203368A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031918sim	Date of Collection: 3/14/12 7:00:00 AM
Dil. Factor:	2.14	Date of Analysis: 3/19/12 09:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.021	Not Detected	0.055	Not Detected
cis-1,2-Dichloroethene	0.043	Not Detected	0.17	Not Detected
Trichloroethene	0.043	Not Detected	0.23	Not Detected
Tetrachloroethene	0.043	Not Detected	0.29	Not Detected
trans-1,2-Dichloroethene	0.21	Not Detected	0.85	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203368A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031906sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 12:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 1203368A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031902sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 09:36 AM

Compound	%Recovery
Vinyl Chloride	85
cis-1,2-Dichloroethene	91
Trichloroethene	90
Tetrachloroethene	89
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203368A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031903sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 10:26 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	108
Trichloroethene	97
Tetrachloroethene	105
trans-1,2-Dichloroethene	120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203368A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v031904sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/19/12 11:17 AM

Compound	%Recovery
Vinyl Chloride	101
cis-1,2-Dichloroethene	106
Trichloroethene	95
Tetrachloroethene	102
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203368B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203368B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-8	Modified TO-15	6.2 "Hg	5 psi
04A	SSV-2-8	Modified TO-15	5.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 03/28/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203368B

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-8

Lab ID#: 1203368B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.17	2.4	1.1	16

Client Sample ID: SSV-2-8

Lab ID#: 1203368B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.46	1.1	3.1



Air Toxics

Client Sample ID: SSV-1-8

Lab ID#: 1203368B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032011	Date of Collection:	3/14/12 7:50:00 AM	
Dil. Factor:	1.69	Date of Analysis:	3/20/12 04:52 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Trichloroethene	0.17	Not Detected	0.91	Not Detected
Tetrachloroethene	0.17	2.4	1.1	16

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	89	70-130



Air Toxics

Client Sample ID: SSV-2-8

Lab ID#: 1203368B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032012	Date of Collection:	3/14/12 8:31:00 AM	
Dil. Factor:	1.61	Date of Analysis:	3/20/12 05:52 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	0.46	1.1	3.1

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	87	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203368B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032006	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/20/12 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203368B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:02 AM

Compound	%Recovery
Vinyl Chloride	93
trans-1,2-Dichloroethene	91
cis-1,2-Dichloroethene	94
Trichloroethene	106
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203368B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	111
Trichloroethene	108
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203368B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	109
Trichloroethene	111
Tetrachloroethene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203429A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1203429A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-9	Modified TO-15 SIM	19.0 "Hg	5 psi
02A	IAF-9	Modified TO-15 SIM	7.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:  DATE: 04/01/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203429A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

Sample IAB-9 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: IAB-9

Lab ID#: 1203429A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.073	0.14	0.50	0.94
trans-1,2-Dichloroethene	0.36	5.5	1.4	22

Client Sample ID: IAF-9

Lab ID#: 1203429A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.035	0.035	0.24	0.24
trans-1,2-Dichloroethene	0.18	0.54	0.69	2.2



Air Toxics

Client Sample ID: IAB-9

Lab ID#: 1203429A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032211sim	Date of Collection: 3/15/12 5:45:00 PM
Dil. Factor:	3.65	Date of Analysis: 3/22/12 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.036	Not Detected	0.093	Not Detected
cis-1,2-Dichloroethene	0.073	Not Detected	0.29	Not Detected
Trichloroethene	0.073	Not Detected	0.39	Not Detected
Tetrachloroethene	0.073	0.14	0.50	0.94
trans-1,2-Dichloroethene	0.36	5.5	1.4	22

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: IAF-9

Lab ID#: 1203429A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032212sim	Date of Collection: 3/15/12 5:08:00 PM
Dil. Factor:	1.75	Date of Analysis: 3/22/12 05:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.035	0.24	0.24
trans-1,2-Dichloroethene	0.18	0.54	0.69	2.2

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203429A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032206sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203429A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	102
Trichloroethene	95
Tetrachloroethene	88
trans-1,2-Dichloroethene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203429A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	94
cis-1,2-Dichloroethene	102
Trichloroethene	90
Tetrachloroethene	87
trans-1,2-Dichloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203429A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	e032204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	102
Trichloroethene	88
Tetrachloroethene	86
trans-1,2-Dichloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	104	70-130

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203429B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203429B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-9	Modified TO-15	6.0 "Hg	5 psi
04A	SSV-2-9	Modified TO-15	5.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:  DATE: 04/01/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203429B

Two 6 Liter Summa Canister samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-9

Lab ID#: 1203429B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.17	6.2	1.1	42

Client Sample ID: SSV-2-9

Lab ID#: 1203429B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.6	1.1	11



Air Toxics

Client Sample ID: SSV-1-9

Lab ID#: 1203429B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032219	Date of Collection:	3/16/12 4:37:00 PM
Dil. Factor:	1.68	Date of Analysis:	3/22/12 11:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
Tetrachloroethene	0.17	6.2	1.1	42

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: SSV-2-9

Lab ID#: 1203429B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032220	Date of Collection: 3/16/12 4:52:00 PM
Dil. Factor:	1.61	Date of Analysis: 3/23/12 07:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.6	1.1	11

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203429B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203429B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	98
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	108
Trichloroethene	105
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203429B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	109
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	112
Trichloroethene	98
Tetrachloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	111	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203429B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	103
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	113
Trichloroethene	96
Tetrachloroethene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

4/1/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203429B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/20/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203429B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/20/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	04/01/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-9	Modified TO-15	6.0 "Hg	5 psi
04A	SSV-2-9	Modified TO-15	5.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 04/01/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203429B

Two 6 Liter Summa Canister samples were received on March 20, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-9

Lab ID#: 1203429B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.17	6.2	1.1	42

Client Sample ID: SSV-2-9

Lab ID#: 1203429B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.6	1.1	11



Air Toxics

Client Sample ID: SSV-1-9

Lab ID#: 1203429B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032219	Date of Collection:	3/16/12 4:37:00 PM
Dil. Factor:	1.68	Date of Analysis:	3/22/12 11:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
Tetrachloroethene	0.17	6.2	1.1	42

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: SSV-2-9

Lab ID#: 1203429B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032220	Date of Collection:	3/16/12 4:52:00 PM	
Dil. Factor:	1.61	Date of Analysis:	3/23/12 07:47 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	1.6	1.1	11

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203429B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 12:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203429B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:00 AM

Compound	%Recovery
Vinyl Chloride	98
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	108
Trichloroethene	105
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203429B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 10:43 AM

Compound	%Recovery
Vinyl Chloride	109
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	112
Trichloroethene	98
Tetrachloroethene	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	111	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203429B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/12 11:22 AM

Compound	%Recovery
Vinyl Chloride	103
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	113
Trichloroethene	96
Tetrachloroethene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

3/29/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203371A

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203371A

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/27/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IAB-11	Modified TO-15 SIM	7.0 "Hg	5 psi
02A	IAF-11	Modified TO-15 SIM	7.8 "Hg	5 psi
03A	Lab Blank	Modified TO-15 SIM	NA	NA
04A	CCV	Modified TO-15 SIM	NA	NA
05A	LCS	Modified TO-15 SIM	NA	NA
05AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:  DATE: 03/29/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Arcadis U.S., Inc.
Workorder# 1203371A

Two 6 Liter Summa Canister (SIM Certified) samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+ - 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: IAB-11

Lab ID#: 1203371A-01A

No Detections Were Found.

Client Sample ID: IAF-11

Lab ID#: 1203371A-02A

No Detections Were Found.

Client Sample ID: IAB-11

Lab ID#: 1203371A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032007sim	Date of Collection: 3/14/12 9:24:00 AM
Dil. Factor:	1.75	Date of Analysis: 3/20/12 01:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: IAF-11

Lab ID#: 1203371A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032008sim	Date of Collection: 3/14/12 9:21:00 AM
Dil. Factor:	1.81	Date of Analysis: 3/20/12 02:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Tetrachloroethene	0.036	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203371A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032006sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: CCV

Lab ID#: 1203371A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032002sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:02 AM

Compound	%Recovery
Vinyl Chloride	86
cis-1,2-Dichloroethene	92
Trichloroethene	92
Tetrachloroethene	90
trans-1,2-Dichloroethene	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	111	70-130

Client Sample ID: LCS

Lab ID#: 1203371A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032003sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 10:46 AM

Compound	%Recovery
Vinyl Chloride	98
cis-1,2-Dichloroethene	105
Trichloroethene	95
Tetrachloroethene	103
trans-1,2-Dichloroethene	117

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203371A-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v032004sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/20/12 11:28 AM

Compound	%Recovery
Vinyl Chloride	100
cis-1,2-Dichloroethene	106
Trichloroethene	96
Tetrachloroethene	104
trans-1,2-Dichloroethene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

3/28/2012

Mr. Rob Uppencamp
Arcadis U.S., Inc.
251 East Ohio St., Suite 800

Indianapolis IN 46204

Project Name: MADISON KIPP
Project #: WI001283.0001.00009
Workorder #: 1203371B

Dear Mr. Rob Uppencamp

The following report includes the data for the above referenced project for sample(s) received on 3/16/2012 at Air Toxics Ltd.

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

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

Regards,




Ausha Scott
Project Manager

WORK ORDER #: 1203371B

Work Order Summary

CLIENT:	Mr. Rob Uppencamp Arcadis U.S., Inc. 251 East Ohio St., Suite 800 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317.236.5207	P.O. #	WI001283.0001.00009
FAX:	317-231-6514	PROJECT #	WI001283.0001.00009 MADISON KIPP
DATE RECEIVED:	03/16/2012	CONTACT:	Ausha Scott
DATE COMPLETED:	03/28/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
03A	SSV-1-11	Modified TO-15	5.2 "Hg	5 psi
04A	SSV-2-11	Modified TO-15	4.6 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:  DATE: 03/28/12

Laboratory Director

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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LABORATORY NARRATIVE
Modified TO-15
Arcadis U.S., Inc.
Workorder# 1203371B

Two 6 Liter Summa Canister samples were received on March 16, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<=/ 30% Difference with four allowed out up to <=/40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: SSV-1-11

Lab ID#: 1203371B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	1.4	1.1	9.7

Client Sample ID: SSV-2-11

Lab ID#: 1203371B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.52	1.1	3.5



Air Toxics

Client Sample ID: SSV-1-11

Lab ID#: 1203371B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032113	Date of Collection: 3/14/12 11:05:00 AM
Dil. Factor:	1.62	Date of Analysis: 3/21/12 04:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Trichloroethene	0.16	Not Detected	0.87	Not Detected
Tetrachloroethene	0.16	1.4	1.1	9.7

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: SSV-2-11

Lab ID#: 1203371B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032116	Date of Collection: 3/14/12 10:24:00 AM
Dil. Factor:	1.58	Date of Analysis: 3/21/12 06:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Trichloroethene	0.16	Not Detected	0.85	Not Detected
Tetrachloroethene	0.16	0.52	1.1	3.5

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: Lab Blank

Lab ID#: 1203371B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032106	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/21/12 11:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1203371B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 08:58 AM

Compound	%Recovery
Vinyl Chloride	91
trans-1,2-Dichloroethene	90
cis-1,2-Dichloroethene	93
Trichloroethene	105
Tetrachloroethene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1203371B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032103	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 09:48 AM

Compound	%Recovery
Vinyl Chloride	108
trans-1,2-Dichloroethene	116
cis-1,2-Dichloroethene	108
Trichloroethene	110
Tetrachloroethene	115

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1203371B-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/21/12 10:32 AM

Compound	%Recovery
Vinyl Chloride	111
trans-1,2-Dichloroethene	120
cis-1,2-Dichloroethene	112
Trichloroethene	109
Tetrachloroethene	115

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	107	70-130

