APPROVED

Report

City of Wichita – Department of Public Works & Utilities, Environmental Health Division

1900 E. 9th Street
Wichita, KS 67214

North Industrial Corridor

Site-wide Vapor Intrusion Assessment

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Acronyms

ACE	Acetone
13BD	1,3-Butadiene
4-BFB	4-bromofluorobenzene (surrogate)
BDCM	Bromodichloromethane
BEN	Benzene
BM	Bromomethane
CCV	Continuing calibration verification
C12DCE	*cis*-1,2-Dichloroethene
CDM	CDM Smith
CDS	Carbon disulfide
CFM	Chloroform
CHEX	Cyclohexane
City	City of Wichita
CM	Chloromethane
COPCs	Chemicals of potential concern
CT	Carbon tetrachloride
CTEH	Center for Toxicology and Environmental Health, L.L.C.
11DCA	1,1-Dichloroethane
12DCA	1,2-Dichloroethane
14DCB	1,4-Dichlorobenzene
DCDFM	Dichlorodifluoromethane (Freon 12)
11DCE	1,1-Dichloroethene
14DX	1,4 Dioxane
EBN	Ethylbenzene
EDB	1,2-Dibromoethane (ethylene dibromide)
EPA	U.S. Environmental Protection Agency
ETH	Ethanol
ETOL	4-Ethyltoluene
FS	Feasibility Study
GC/MS	Gas chromatography/mass spectroscopy
GIS	Geographical Information System
HEX	Hexane
HP	Heptane
IPA	2-Propanol (isopropylalcohol)
IPB	Isopropylbenzene
KDHE	Kansas Department of Health and Environment
LCS/LCSD	Laboratory control spike/laboratory control spike duplicate

MB	Method blank
MCLs	Maximum contaminant levels
MECL	Methylene chloride
MEK	2-Butanone (methyl ethyl ketone)
MTBE	Methyl tert-butyl ether
NIC	North Industrial Corridor
NPB	n-Propylbenzene
1122PCA	1,1,2,2-Tetrachloroethane
PCE	Tetrachloroethene
PPBV	Parts per billion by volume
QA/QC	Quality assurance/quality control
RI	Remedial Investigation
RL	Reporting limit
RPD	Relative percent difference
SIM	Selective Ion Monitoring
STY	Styrene
THF	Tetrahydrofuran
111TCA	1,1,1-Trichloroethane
112TCA	1,1,2-Trichloroethane
124TCB	1,2,4-Trichlorobenzene
TCE	Trichloroethene
TCFM	Trichlorofluoromethane (Freon 11)
124TMB	1,2,4-Trimethylbenzene
135TMB	1,3,5-Trimethylbenzene
224TMP	2,2,4-Trimethylpentane
TOL	Toluene
UTL	Upper tolerance limit
VC	Vinyl chloride
VI	Vapor intrusion
VOCs	Volatile organic compounds
XYL	Xylenes
XYLMP	m,p-Xylene
XYLO	o-Xylene

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Section 1
Introduction

The City of Wichita (City) retained CDM Smith (CDM) to perform a vapor intrusion (VI) assessment for the North Industrial Corridor (NIC) Site in Wichita, Kansas as requested by the Kansas Department of Health and Environment (KDHE). CDM conducted the VI assessment from January through March 2012 in accordance with the KDHE's VI guidance document (KDHE 2007), the KDHE-approved VI Work Plan (CDM 2011a) and Addendum #1 (CDM 2012b), and additional investigative techniques as discussed between CDM, the City, and the KDHE.

1.1 Background Information

The NIC Site is located in the north-central portion of the city of Wichita, Sedgwick County, Kansas. In 1983, a United States Environmental Protection Agency (EPA) investigation revealed the presence of volatile organic compounds (VOCs) in groundwater produced from two industrial wells in the area. Subsequent investigations throughout the 1980s and early 1990s revealed widespread VOC contamination in groundwater in the area. The NIC Site was established in 1995 to combine and focus the efforts of three separate environmental investigations (as discussed in the NIC Site-wide Groundwater Feasibility Study [FS] (CDM 2011b)). The original NIC Site boundary was established by the KDHE in the Settlement Agreement signed in November 1995. The Site boundary has subsequently been changed to include additional areas, maintain consistency with city limits, and eliminate overlap with the nearby Gilbert & Mosley Site. **Figure 1-1** depicts the current Site boundary.

1.1.1 Environmental Setting and Land Use

Physiographic, climatic, geologic/hydrogeologic, hydrologic, and demographic information for both the region and the NIC Site were presented in the NIC Site-wide Remedial Investigation (RI) report and addendum (CDM 2007a and CDM 2007b) and summarized in the NIC Site-wide Groundwater FS (CDM 2011b).

The NIC Site, consisting of approximately 4,011 acres of urban industrial, commercial, recreational, residential, and agricultural property, was developed from agricultural land over the last century. As of 2004, land use within the Site was generally comprised as noted in **Table 1-1** below. **Figure 1-2** shows land use based on data contained in the City's Geographical Information System (GIS) database as of March 2011.

Table 1-1 Land Use

Land Use	Acreage	Percent of Site
Agriculture	339	8.5 %
Parks	57	1.4 %
Schools	9	0.2 %
Hospitals	45	1.1 %
Residential	490	12.2 %
Vacant	149	3.7 %
Commercial/Industrial	2,922	72.8 %
TOTAL	4,011	100.0 %

Residential properties are primarily located in the southeastern and southwestern portions of the Site, generally south of 17th Street. There is also a small residential community consisting of approximately 14 properties located on the west side of Hydraulic and north of 37th Street, west and northwest of the USD 259 property. The majority of the residential properties within the NIC Site consist of low- to moderate-income single-family housing.

The northernmost portions of the NIC Site contain agricultural areas. Commercial/industrial properties are primarily located in the northern portion of the Site between the northern boundary (north of 37th) and 19th Street, and along the Santa Fe/Washington corridor between 2nd Street and 19th Street. Schools and child care facilities are present within the Site.

1.1.2 Chemicals of Potential Concern

Chemicals of potential concern (COPCs) for Site-wide groundwater, indoor air, surface water, and sediment, as selected based on findings during the City's RI (CDM 2007a and CDM 2007b), were discussed in Section 1.5 of the NIC Site-wide Groundwater FS (CDM 2011b). COPCs were also selected for groundwater and soil in the sludge pit areas. **Table 1-2** provides a summary of the COPCs for each of the media. Of the identified COPCs, 10 compounds were identified as Site groundwater and VI pathway target compounds (indicated in **Table 1-2**):

- Tetrachloroethene (PCE);
- Trichloroethene (TCE);
- *cis*-1,2-Dichloroethene (C12DCE);
- Vinyl chloride (VC);
- 1,1,1-Trichloroethane (111TCA);
- 1,1-Dichloroethane (11DCA);
- 1,1-Dichloroethene (11DCE);
- Carbon tetrachloride (CT);
- Chloroform (CFM); and
- Benzene (BEN).

The compounds listed above were identified based on frequency of detection, exceedance of maximum contaminant levels (MCLs)/KDHE Tier 2 cleanup goals, extent of contamination, usability in source identification, and importance as a biodegradation product. Of the above compounds, TCE is the most widespread in both extent and mass present, with C12DCE and PCE the second and third-most widespread, respectively. The remaining target compounds are fairly localized in extent and minimal in mass. Because TCE, C12DCE, and PCE are the most widespread, a sum of the concentrations of these three compounds was used to create a contour map for the VI Work Plan (CDM 2011a, Figure 2-2) showing the anticipated worst extent of NIC Site-wide groundwater contamination for VOCs. The extent of these three COPCs (TCE + C12DCE + PCE), combined with land use information, was used to develop an approach for evaluating the VI pathway. Section 2 discusses sampling location selection and methodology.

1.2 Objectives and Overview of Investigation

The primary goal of a VI assessment is to identify whether vapors emanating from soil and groundwater pose a risk to building inhabitants via indoor air. The specific objectives for the NIC Site were:

1. Evaluate the VI pathway using a phased-approach to target properties most at-risk for a complete pathway, and also evaluate a sampling of properties with less presumed risk, to understand potential VI conditions for the entire NIC Site. Final decisions regarding risk for the VI pathway are based on comparing analytical results to the KDHE's Tier 2 risk-based indoor air cleanup goals published in Appendix A of the *Risk Based Standards for Kansas RSK Manual* (KDHE 2010), and as modified for TCE and PCE by subsequent communications from the KDHE (discussed in Section 1.3), to assess the potential need for mitigation.

2. Based on the results of the evaluation, determine if any additional actions are needed.

CDM conducted the NIC Site-wide VI assessment in a 3-phased approach (further discussed in Section 2). Phases 1 and 2 were building selection and sample screening using passive diffusion samplers, respectively. Building selection (***Phase 1***) included:

- Identification of residences, schools, and daycares overlying shallow groundwater contamination for the COPCs (discussed in Section 1.1.2).

- Division of identified residences into four groups based on the estimated combined concentrations of TCE, C12DCE, and PCE in shallow groundwater underneath the buildings: 1-5 micrograms per liter (µg/L), 5-20 µg/L, 20-100 µg/L, >100 µg/L.

- Selection of residences from the >100 µg/L group (25%), the 20-100 µg/L group (5%), the 5-20 µg/L group (2%), and the 1-5 µg/L group (1%) with consideration to spatial distribution across the Site and representativeness of building construction style. See Section 2 for a discussion of deviations from these planned percentages during field implementation.

- Selection of all schools and daycares within the four groups.

The screening evaluation (***Phase 2***) included:

- Collection of outdoor air samples from 17 ambient air monitoring stations spatially distributed across the NIC Site using passive diffusion samplers deployed for seven days.

- For selected residences, schools, and daycares from Phase 1, performance of a simplified building and product inventory to screen for common products known to contain PCE and TCE and collection of indoor air samples using 7-day passive diffusion samplers.

- Submittal of the results from Phases 1 and 2 to the KDHE along with recommendations for the Phase 3 sampling. Note: the results and recommendations were submitted to the KDHE in a February 28, 2012 Technical Memorandum (CDM 2012a).

The verification sampling (***Phase 3***) included:

- Collection of five additional outdoor air samples using 7-day passive diffusion samplers to verify the Phase 2 survey.
- Verification of Phase 2 results, by re-sampling of indoor air in at least 10% of the buildings from Phase 2 recommended for no further sampling, using 24-hour stainless steel canisters to confirm results.
- Selection of a subset of buildings to be re-sampled using the full-scale Phase 3 investigative approach (indoor air, basement/crawlspace, and sub-slab) due to exceedences of Tier 2 cleanup goals. The investigation included completion of a detailed questionnaire and product inventory and use of a portable field gas chromatography/mass spectroscopy (GC/MS) unit to quantitatively identify indoor sources and potential routes of entry for VI.
- Collection of sub-slab, basement/crawlspace, and indoor air samples as appropriate using stainless steel canisters following completion of the detailed inventory and GC/MS survey at the selected locations.

This document provides an overview of activities from all three phases of the VI investigation. Analytical results for Phase 2 and Phase 3are also summarized herein and compared to the KDHE Tier 2 indoor air cleanup goals (discussed in Section 1.3).

1.3 Regulatory Overview

A regulatory framework for this project was developed using the following guidance documents:

- *Kansas Vapor Intrusion Guidance, Chemical Vapor Intrusion and Residential Indoor Air*, *June 2007* (KDHE 2007) and
- *Risk-Based Standards for Kansas, RSK Manual – 5th Version, October 2010* (KDHE 2010).

The KDHE has established chemical-specific, pre-determined acceptable risk-based cleanup goals for exposure pathways under Tier 2 in its RSK Manual (KDHE 2010). The Tier 2 cleanup goals represent an incremental risk of 1 in 100,000 (1×10^{-5}) for chronic exposure to carcinogens or a hazard quotient of 1.0 for non-carcinogens. An update to the October 2010 RSK Manual has not yet been officially published; however, the KDHE has indicated that values for TCE and PCE have been updated and that these modified values be used for comparison during this investigation. See the footnotes for **Table 1-3** for more information on the modifications.

Section 1.1.2 outlined the 10 COPCs for the VI pathway for the NIC Site based on the results from the Site-wide RI/FS (CDM 2007a, CDM 2007b, and CDM 2011b). The Tier 2 cleanup goals for the COPCs are:

Table 1-3 Tier 2 Cleanup Goals for COPCs

COPC	Tier 2 Cleanup Goal (µg/m3)
PCE	41.7 [1]
TCE	2.09 [2]
C12DCE	36.5
VC	5.53
111TCA	5,210
11DCA	15.2
11DCE	209
BEN	3.12
CT	4.06
CFM	1.06

[1] The Tier 2 cleanup goal for PCE as published in Appendix A of the current *Risk Based Standards for Kansas RSK Manual* (October 2010) is 4.12 µg/m^3. Communication from the KDHE (email dated March 7, 2012) indicated that the Tier 2 cleanup goal for PCE is increased to 41.7 µg/m^3 (effective immediately) as calculated based on the revised toxicity data in the EPA's Integrated Risk Information System (IRIS).

[2] The Tier 2 cleanup goal for TCE as published in Appendix A of the current *Risk Based Standards for Kansas RSK Manual* (October 2010) is 12.2 µg/m^3. Communication from the KDHE (#3 in the January 3, 2012 KDHE comments on the VI Work Plan) indicated that the Tier 2 cleanup goal for TCE is reduced to 2.09 µg/m^3 (effective immediately) as calculated based on the EPA's September 28, 2011 update to the IRIS.

1.4 Report Contents

Section 2 describes the methodologies used for the VI assessment as well as deviations from the proposed activities. **Section 3** discusses results from the Phase 2 and Phase3 investigations. **Section 4** discusses conclusions and recommendations for no further sampling, mitigation, and/or additional analysis by building. References are provided in **Section 5**. Maps for the "commercial" daycares showing sampling locations are provided in **Appendix A**. Analytical laboratory data from both the Phase 2 and Phase 3 investigations are included in **Appendix B**. A copy of the report for the portable GC/MS investigation is provided in **Appendix C**. **Appendix D** contains completed Phase 3 questionnaires. **Appendix E** contains the data validation work sheets.

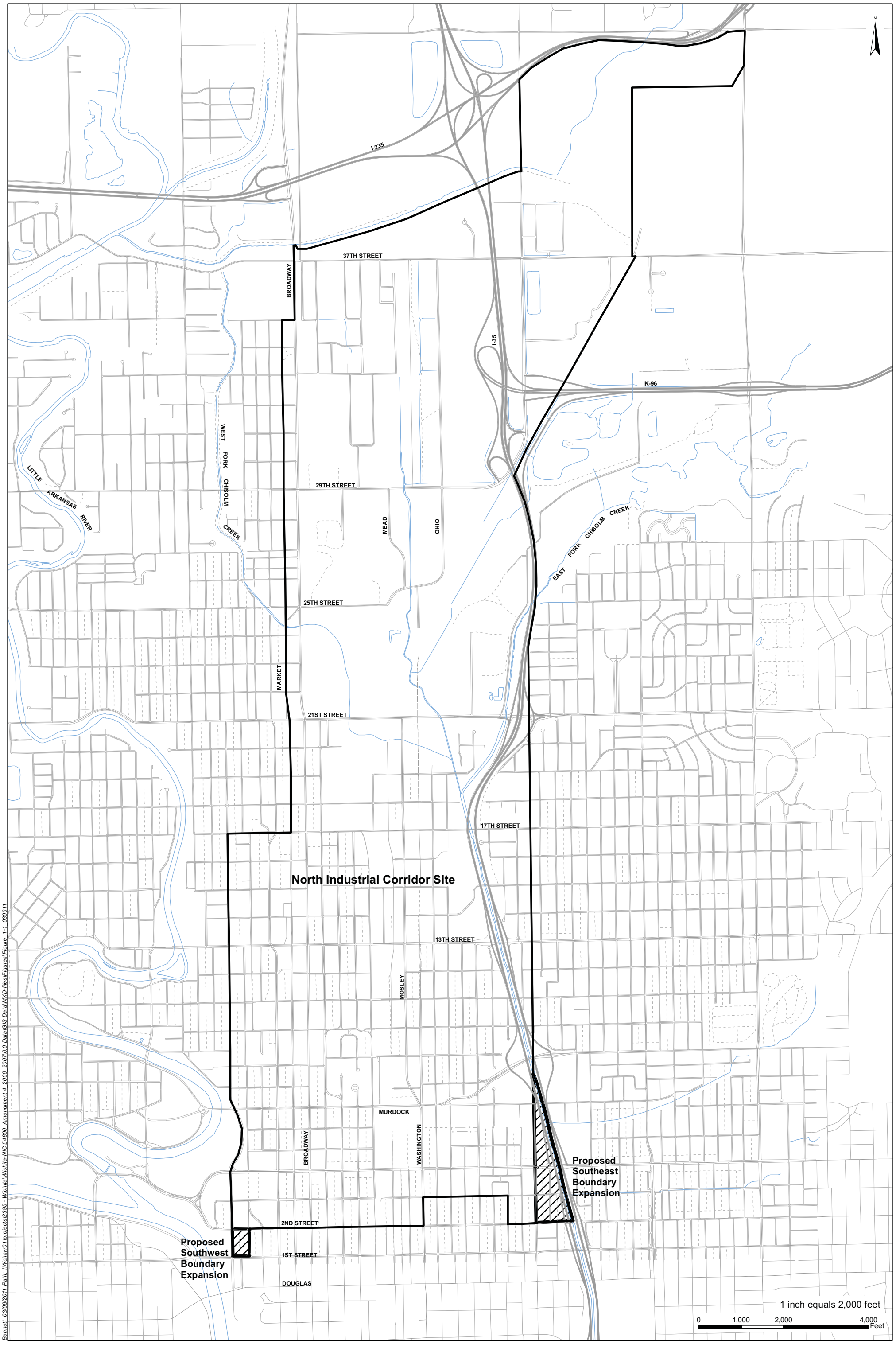

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Figure 1-1
North Industrial Corridor (NIC) Site
Site Map

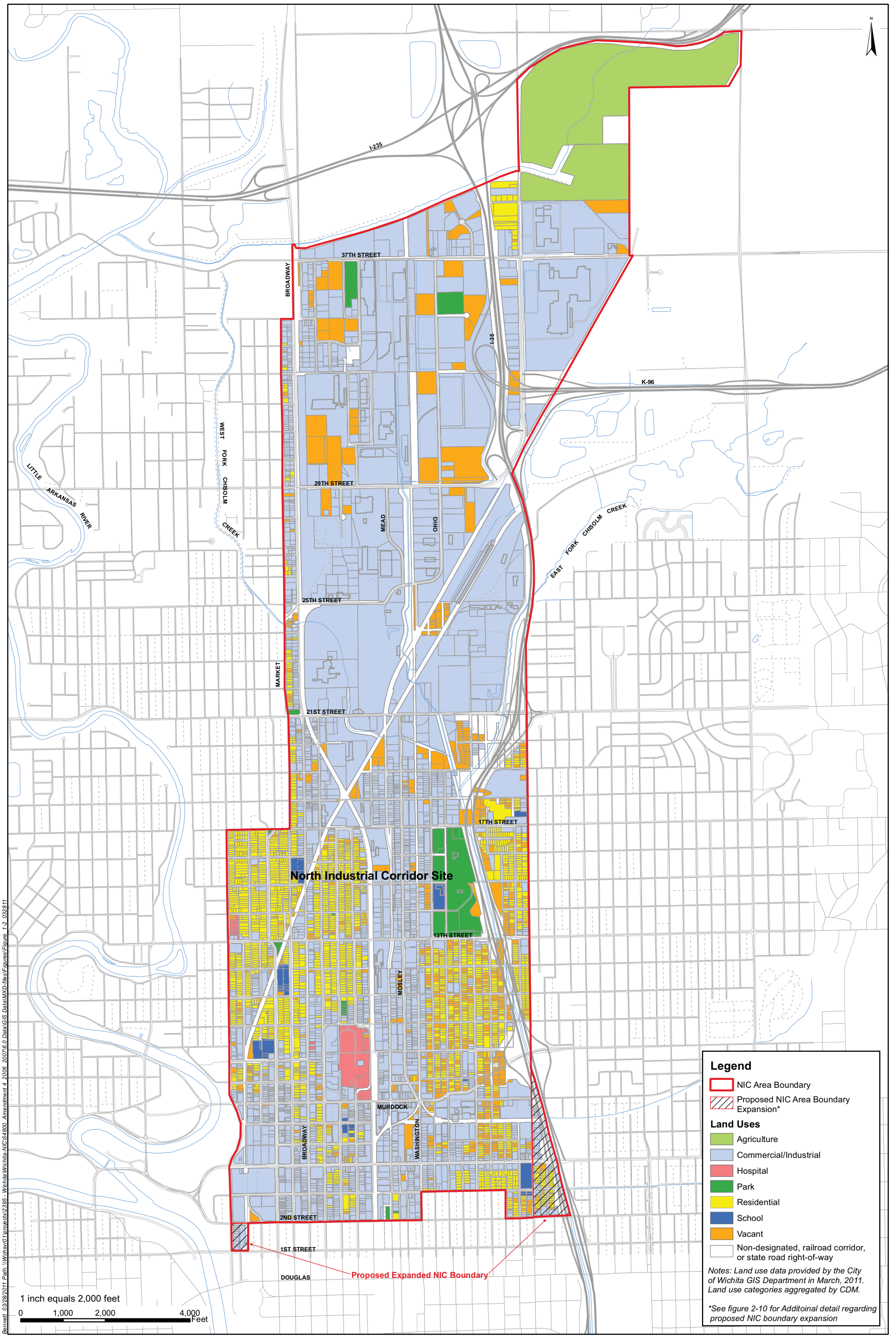

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Figure 1-2
North Industrial Corridor (NIC) Site
Land Use Areas

Table 1-2
North Industrial Corridor (NIC) Site
Chemicals of Potential Concern[1]

		Groundwater	Indoor Air	Surface Water	Sediment	Sludge Pit Area	
						Groundwater	Soils
Volatile Organic Compounds							
√	Benzene	Y	Y			Y	
	Bromodichloromethane	Y	Y				
√	Carbon tetrachloride	Y	Y				
	Chloroethane	Y	Y			Y	
√	Chloroform	Y	Y				
	Chloromethane	Y	Y				
	Dibromochloromethane	Y	Y				
	1,2-Dibromoethane	Y	Y				
√	1,1-Dichloroethane	Y	Y				
	1,2-Dichloroethane	Y	Y				
√	1,1-Dichloroethene	Y	Y				
√	*cis* -1,2-Dichloroethene	Y	Y				
	trans -1,2-Dichloroethene	Y	Y				
	1,2-Dichloropropane	Y	Y				
	Ethylbenzene	Y	Y			Y	
	n -Butylbenzene	Y	Y				
	sec -Butylbenzene	Y	Y				
	Isopropylbenzene	Y	Y				
	p -Isopropylbenzene	Y	Y				
	n -Propylbenzene	Y	Y				
	Methylene chloride	Y	Y				
	Methyl *tert* -Butyl Ether	Y	Y				
	1,1,2,2-Tetrachloroethane	Y	Y				
√	Tetrachloroethene	Y	Y				
	Toluene	Y	Y				
√	1,1,1-Trichloroethane	Y	Y				
	1,1,2-Trichloroethane	Y	Y				
√	Trichloroethene	Y	Y	Y			
	1,2,4-Trimethylbenzene	Y	Y				
	1,3,5-Trimethylbenzene	Y	Y				
√	Vinyl chloride	Y	Y	Y		Y	
	m,p-Xylene	Y	Y			Y	
	o-Xylene	Y	Y			Y	
Semivolatile Organic Compounds							
	1,4-Dichlorobenzene	Y	Y				
	Benzo(a)anthracene						Y
	Benzo(a)pyrene				Y		Y
	Benzo(b)fluoranthene				Y		Y
	Bis(2-ethylhexyl)phthalate						Y
	Chrysene					Y	
	Ideno(1,2,3-cd)pyrene						Y
	Naphthalene	Y	Y			Y	
	Pyrene					Y	
Total Petroleum Hydrocarbons (TPH)		Y	Y				
	TPH-Diesel-range Organics (DRO)	Y	Y			Y	Y
	TPH-Gasoline-range Organics (GRO)	Y	Y			Y	Y
Metals							
	Aluminum					Y	
	Arsenic	Y	Y		Y	Y	Y
	Barium	Y	Y			Y	
	Iron	Y	Y			Y	Y
	Lead	Y	Y			Y	Y
	Manganese	Y	Y			Y	
	Selenium	Y	Y				
	Thallium	Y	Y				
Pesticides/Polychlorinated biphenyls (PCBs)							
	PCB-1248						Y
	PCB-1260				Y		Y

1 = List of COPCs (chemicals of potential concern) are from Tables 2-1 through 2-7 as presented in the KDHE-approved *Baseline Risk Assessment for the North Industrial Corridor* (CDM 2007c).

√ = Groundwater target compound for vapor intrusion pathway

Section 2

Investigative Approach

This section presents a discussion of the field activities conducted during the VI assessment. Samples collected during this field investigation were analyzed for VOCs to assess the magnitude and extent of potential VI impact at the Site.

2.1 General Approach

CDM conducted the VI assessment in a phased approach, as briefly described in Section 1.2 and summarized in **Figure 2-1**. The intent was to quantitatively screen risk at the point of exposure with a focus on buildings most potentially impacted by VI, while also evaluating a sampling of buildings within areas potentially less impacted by VI. The phased approach also allowed a more detailed evaluation of the VI pathway during Phase 3 for buildings with potentially unacceptable risk as based on Phase 2 screening results. CDM generally conducted the sampling in accordance with the KDHE-approved VI Work Plan (CDM 2011a) and Addendum #1 (CDM 2012b). Investigation activities are discussed in this section along with deviations from the planned activities due to access and other issues during implementation.

2.1.1 Phase 1 – Building Selection

Nearly 1,000 occupied residential/school/daycare structures at the NIC Site overlie a shallow groundwater contaminant plume containing at least 1 µg/L of combined PCE/TCE/C12DCE. Evaluation of VI at this many structures in a single winter season was not feasible from a time or resource perspective. In addition, some residences are presumably more at risk for a complete VI pathway because they are located above areas of greater concentrations of shallow groundwater contamination, or, because of building construction style (i.e., basement), living areas may be located closer to shallow groundwater contamination than other building styles (i.e., slab on grade and crawlspace). CDM therefore designed the VI investigative approach to maximize the number of buildings evaluated during the 2011-2012 winter season at the actual point of exposure based on estimated risk for a potentially complete VI pathway.

The potentially-affected buildings were divided into four groups based on the combined concentrations of PCE/TCE/C12DCE in shallow groundwater at the Site: 1-5 µg/L, 5-20 µg/L, 20-100 µg/L, and >100 µg/L. **Figure 2-2** depicts the isoconcentration contours for each of the four groups and includes shading to highlight residential and other land use within the groups. As shown on **Figures 1-2** and **2-2**, the northern half of the NIC Site is primarily commercial/industrial while the majority of the residential structures are located in the southern half of the Site. For easier reference in the discussions below, the main residential areas addressed during the VI investigation are designated on **Figure 2-2** as Area A, Area B, and Area C.

Investigation goals included evaluating all schools and daycares overlying the shallow groundwater plume of PCE/TCE/C12DCE with an estimated concentration of >1 µg/L. **Figure 2-3** shows the locations of schools and registered daycare facilities that overlie the targeted concentration groups for PCE/TCE/C12DCE. Based on daycare and school locations compared to the distribution of PCE/TCE/C12DCE, CDM targeted the following eight daycare facilities for VI assessment:

- McAdams Neighborhood Rec Program,
- L'Ouverture School Age Child Care,
- Wichita YMCA Midtown Resource Center,
- Park Elementary School Age Program,
- Via Christi St Francis Child Development Center,
- Envision Child Development Center,
- First United Methodist Church Child Care Center, and
- Little Tykes Day Care Home.

Targeted schools included:

- L'Ouverture Computer Tech Elementary,
- Washington Elementary, and
- Park Elementary.

Two of the daycare facilities, L'Ouverture School Age Child Care and Park Elementary School Age Program, are co-located with schools; therefore, these combination school/daycare facilities were targeted to be investigated under a single assessment for each building, i.e., during the school VI assessments.

During preparation of the VI Work Plan (CDM 2011a), a subset of residential buildings was selected from each concentration group using a method that focused evaluation on the residences with the most potential risk for VI. This was accomplished by having decreasing percentages of selected residences per decreasing concentration groups. In addition, targeted percentages were planned for construction types to achieve a representative number of samples based on building type and spatial distribution above the groundwater plume for each concentration group. As noted in the VI Work Plan (CDM 2011a), the >100 µg/L groundwater plume associated with the Apex Site (in the southwest portion of the NIC Site [**Figure 2-2**]) was evaluated for VI in December 2010 (CDM 2011c). No additional evaluation in the Apex plume area occurred during the NIC Site-wide VI assessment. **Table 2-1** presents the assumed number of occupied residences for the four concentration groups (based on March 2011 City of Wichita parcel information), the planned sampling percentages, the target number of locations, and the target construction type percentages proposed for each concentration group.

Table 2-1 Planned Sampling per Concentration Group

Concentration Group	Assumed Number of Occupied Residences[1]	Planned Sampling Percentage	Target Number of Locations	Target Percentages for Construction Types
>100 µg/L	168	25%	42	Ideally, 50% w/ basement; 25% w/ crawlspace; 25% w/ slab on grade
20-100 µg/L	211	5%	11	
5-20 µg/L	235	2%	5	
1-5 µg/L	374	1%	4	
> 1 µg/L	Daycares and Schools	100%	8 daycares, 3 schools	Not applicable

[1] Number of residential structures per concentration group based on available parcel information (as of March 2011) from the City of Wichita GIS database.

In Section 5 of the VI Work Plan (CDM 2011a), CDM had proposed submitting a full list of the selected buildings to the KDHE prior to beginning Phase 2. Instead, CDM submitted information and proposed revised sample numbers for the schools and daycares; the KDHE approved the revised proposed school and daycare sampling in a letter dated January 24, 2012. Obtaining access to residences occurred during implementation of the Phase 2 activities; see Section 2.1.2.3 for additional discussion on activities, issues, and modifications to the plan. Additional deviations from the proposed activities are discussed in the appropriate subsections below.

2.1.2 Phase 2 – Screening Evaluation

2.1.2.1 Sampling and Analysis

As proposed in the VI Work Plan and Addendum #1 (CDM 2011a and CDM 2012b), CDM collected indoor air samples using SKC Ultra III passive diffusion samplers with Carbograph 5 sorbent. The Carbograph 5 sorbent is an advantageous matrix for uptake and analysis of the 10 NIC Site COPCs at concentrations less than KDHE Tier 2 cleanup goals (as discussed in Section 1.3). In addition to the indoor air screening samples, a concurrent outdoor air sampling program was conducted, also using the SKC Ultra III passive diffusion samplers, to establish ambient air conditions during the Phase 2 screening evaluation. For the NIC Site, the passive diffusion samplers provided:

- A cost-effective method for screening many buildings for a large site;
- A comparable method to collect outdoor air samples to establish ambient air conditions that contribute to indoor air quality;
- A selection of sampler and sorbent that provided experimentally-verified sampling rates for COPCs at the point of exposure in both indoor and outdoor air samples; and
- An analytical method that allowed for analysis of all COPCs at reporting limits (RLs) less than KDHE Tier 2 cleanup values.

Figure 2-4
Indoor Air Stand with Sampler

The passive samplers were deployed for approximately seven days each to better accommodate fluctuations in building and environmental conditions that have been shown to affect indoor and outdoor air concentrations related to VI. During Phase 2, indoor air samplers were deployed in residences and daycares from January 23, 2012 through February 9, 2012 as access to each building was obtained. CDM generally used a metal, manufacturer-supplied-sampling stand (**Figure 2-4**) for indoor sample locations to stabilize and/or prevent disturbance to the sampler during deployment. Where feasible and for greater stability or inconspicuousness, the sampler was clipped to an existing structure inside buildings. The samplers were placed in locations approximately three to five feet above the floor.

Seventeen passive diffusion samplers for outdoor air evaluation were deployed for approximately seven days each during the same time frame as the indoor samples but in a staggered fashion in order to overlap with all of the indoor air sampling during Phase 2. This method meant there were always at least a few outdoor air samplers in place throughout Phase 2. Outdoor air samples collected using passive diffusion samplers were enclosed in a manufacturer-supplied shelter to prevent direct exposure to moisture, but still allow unobstructed access to ambient air conditions (**Figure 2-5**).

Figure 2-5
Outdoor Air Shelter with Sampler

Outdoor air samples were spatially located across the NIC Site generally in the proximity of the buildings where concurrent indoor air sampling was occurring. Locations for actual placement of the outdoor air samples were modified from the proposed locations in the VI Work Plan (CDM 2011a). These modifications were due to the availability of structures to tie the shelters to in locations representative of residences where access for indoor air sampling was obtained. Also, in the VI Work Plan (CDM 2011a), CDM had proposed deploying samplers at 20 outdoor air locations. During implementation of Phase 2, sampling of the three schools was delayed due to issues in gaining access. CDM therefore held three of the outdoor air locations in reserve to be used during sampling of the schools. As of preparation of this report, the City still has not been able to obtain access to the schools.

During the Phase 2 sampling, as requested by the KDHE, CDM also collected five indoor air samples using certified clean, 6-liter, stainless steel canisters. These five samples were each co-located with a passive diffusion sampler placed within the same building. The canister samples were time-integrated over 24 hours using a dedicated, calibrated flow controller for each canister. Collection of the five canister samples helped provide an understanding of the correlation between the two sampling and analytical techniques. A comparison of the data between these two techniques will be discussed in Section 3.

All collected air samples were analyzed for VOCs. Analysis of the passive diffusion samplers was conducted by GC/MS using EPA Method TO-17 to thermally extract and analyze adsorbed VOCs from the sorbent. Air samples collected in stainless steel canisters were analyzed by GC/MS using EPA method TO-15.

Air Toxics of Folsom, California conducted the analyses for both the passive diffusion and canister samples. Appendix E of the VI Work Plan (CDM 2011a) presented laboratory RLs for TO-15 and TO-17, including uptake rates for the passive diffusion samplers. The uptake rates have been experimentally verified for indoor, or zero-velocity, environments for all 10 NIC Site COPCs; therefore, comparison of Phase 2 analytical results for indoor air to KDHE Tier 2 cleanup goals was based on validated uptake rates for all 10 COPCs. For outdoor environments, eight of the 10 COPCs have validated uptake rates; the two COPCs that had theoretical uptake rates were 11DCA and VC.

2.1.2.2 Schools and Daycares – Gaining Access, Sampling, and Deviations from the Work Plan

During actual implementation of the field activities, access and other issues resulted in modification of the planned activities.

- The daycare at the Wichita YMCA Midtown Resource Center was closed prior to beginning the VI investigation due to construction for new YMCA facilities. This daycare was not sampled.

In the KDHE-approved VI Work Plan (CDM 2011a) and Addendum #1 (CDM 2012b), CDM proposed deploying samplers in the schools and daycares based on the following rationale due to the variety of building sizes and number of occupants:

- For schools, two samples for the first 20,000 square feet of building space, followed by an additional sample for each additional 20,000 square feet of building space;
- For daycare and similar facilities, one sample for the first 50 child capacity, followed by an additional sample for each additional 100 child capacity; and
- For the two buildings that are a combined school and daycare facility, a sample number based on the rationale for schools with at least one of the samples located within the space used for daycare activities.

Based on this rationale and information available during work plan preparation for the schools and daycare facilities, CDM anticipated a number of samples to be deployed in each school or daycare facility (CDM 2011a and CDM 2012b). However, on January 20, 2012 (prior to initiating sampling activities), CDM and City staff conducted walkthroughs of the three schools and co-located child care rooms. On January 24, 2012, CDM and City staff conducted walkthroughs of four of the "commercial" daycares: McAdams Neighborhood Rec Program, Via Christi St Francis Child Development Center, Envision Child Development Center, and First United Methodist Church Child Care Center. The Little Tykes Day Care Home is located within a residence; therefore, a walkthrough was not necessary. Based on the facility walkthroughs and with subsequent approval from the KDHE (letter dated January 24, 2012), CDM adjusted the actual number of samples to be collected at each facility.

Access to the daycares for the actual sampling was obtained by City of Wichita staff. As of preparation of this report, the City of Wichita has not able to obtain access permission from USD 259 to sample the schools. Because the child care facilities, L'Ouverture School Age Child Care and Park Elementary School Age Program, are co-located with the corresponding schools, neither the schools nor these daycares were sampled.

For the daycare facilities, CDM mainly deployed the samplers in locations of frequent use by children and staff (i.e., where they spend the majority of their day) while maintaining reasonable distribution of samples throughout each facility building. In the case of the McAdams Neighborhood Rec Program, senior citizens also often use the club room for meetings and meals; CDM therefore deployed a sampler in this room as well as other areas of the facility. Layouts and approximate sample locations for the McAdams Neighborhood Rec Program, Via Christi St Francis Child Development Center, Envision Child Development Center, and First United Methodist Church Child Care Center are provided in **Appendix A**. For the Little Tykes Day Care Home, the sample location was the living room and adjacent playroom. **Table 2-2** provides a summary of the actual number of samples collected at each daycare location.

Table 2-2 Daycare Samples

Location	Proposed Number of Samples [1]	Revised Number of Samples After Walkthrough
McAdams Neighborhood Rec Program	2	3
Via Christi St Francis Child Development Center	4	4
Envision Child Development Center	1	3
First United Methodist Church Child Care Center	2	2
Little Tykes Day Care Home	1	1

[1] From VI Work Plan (CDM 2011a) and Addendum #1 (CDM 2012b).

2.1.2.3 Residential – Gaining Access, Sampling, and Deviations from the Work Plan

During actual implementation of the Phase 2 field activities, access and other issues resulted in modification of the planned sampling percentages and resulting target number of locations (discussed in Section 2.1.1). Phase 2 activities for residential sampling and deviations are discussed in this section.

CDM and City staff performed several steps while attempting to obtain access to residences for sampling. To start, City staff compiled a list of addresses for the residences in the red (>100 µg/L) and orange (20-100 µg/L) concentration zones in Areas A, B, and C (as designated on **Figure 2-2**). The City then sent post cards to the residences briefly mentioning that the City would be performing an "air quality study" in the neighborhood and asking for volunteers. City personnel received responses from only a few of the approximately 172 post cards that were sent out; therefore, approximately one week later, CDM and City staff began an intensive door-to-door assessment requesting access to homes in the red and orange zones. If no one answered the door during this assessment, field staff left a hanging door tag at the residence again saying that the City was performing indoor air testing and asking for volunteers. For the required sampling in the green (5-20 µg/L) and blue (1-5 µg/L) zones, CDM and City staff knocked on doors at selected locations until access at the appropriate number of homes had been obtained.

During the door-to-door assessment, CDM staff updated parcel information and results of attempts to gain access. Parcel usage is noted in **Figure 2-6** for Area A, **Figure 2-7** for Area B, and **Figure 2-8** for Area C. All homes in the Areas A and C red zones were sampled along with an appropriate number of homes in the Areas A and C orange zones. In Area B, field staff requested access at every residential home within the red zone; however, an unexpected number of the structures were vacant/condemned or non-residential or the parcels were vacant. For these reasons, the actual number of available residences in Area B (**Figure 2-7**) was much lower than the number assumed during VI Work Plan (CDM 2011a) preparation. In addition, one of the Area B red zone samples was lost during deployment (L18); the babysitter reportedly threw it away. CDM and City staff were able to meet the sampling requirements across the NIC Site for the blue, green, and orange zones. Sampling requirements for the red zone were not met, which CDM discussed with the KDHE on January 31, 2012. **Table 2-3** provides a summary of the Phase 2 sampling efforts.

Table 2-3 Actual Sampling per Concentration Group – Residential

Number of Residences by Zone (*based on available parcel information [as of March 2011] downloaded from the City of Wichita GIS database*)	Red	Orange	Green[1]	Blue[1]	**Total**	**Percentages of Assumed Parcels**
	>100 µg/L	**20-100 µg/L**	**5-20 µg/L**	**1-5 µg/L**	**(Red+Orange)**	
	168	211	235	374	**379**	
Assumed Parcels for Planning	168	211	n/a	n/a	379	100%
Identified as Not residential[2]	16	16	n/a	n/a	32	8.4%
Identified as Vacant[3]	56	36	n/a	n/a	92	24.3%
Actual Residential Parcels	96	159	n/a	n/a	255	67.3%
No answer	33	33	n/a	n/a	66	25.9%
Declined[4]	39	32	n/a	n/a	71	27.8%
Not attempted[5]	1	81	n/a	n/a	82	32.2%
Sampled	23 (vs. 42 required)	13 (vs. 11 required)	6 (vs. 5 required)	5 (vs. 4 required)	36	14.1%
Basement	6	7	3	3	19	40.4%
Crawlspace	15	6	3	2	26	55.3%
Slab on grade	2	0	0	0	2	4.3%

n/a = not available or not applicable

[1] = For green and blue zones, only a few homes needed to be sampled. Field staff therefore just knocked on doors to selected homes until access was obtained and the required number of homes had been sampled.

2 = Known "Not residential" buildings within the sampling areas (church, business, other). In the orange, green, and blue zones, because only a certain percentage of homes needed to be sampled, not all of the non-residential parcels have been identified. Numbers in the table above should be considered a minimum.

3 = Vacant includes known condemned properties and some empty lots/parking lots. Additional empty lots are present in the area but are not included in the counts if they had not been assigned a street number (based on available City of Wichita GIS information).

4 = Declined includes homes where tenant/owner refused access permission but also homes declined by field staff due to smoking in home by tenant/owner; construction of home such as modular home; and/or other factors considered by field staff to make the home unviable for sampling.

5 = Not attempted includes homes declined by field staff due to preventative measures such as dogs and/or locked gates as well as homes where access permission was not attempted because the required number of homes for the zone had been sampled.

During the door-to-door assessment, field staff deployed passive samplers at all residences where access was obtained; the five canister samples were deployed at select residences. Before deployment of each sampler/canister, CDM and City staff informed the building occupant(s) of the sampling process and provided instructions on living or working with the sampler(s) for the following week. CDM also completed the simplified building and inventory form (Appendix A of the VI Work Plan [CDM 2011a]) with property owners/tenants to identify common products and potential indoor sources of PCE and TCE. Information from these inventories is included in the "Notes" columns, where appropriate, of the summary data tables in Section 3. Identified indoor sources were removed or minimized if approved by the property owners/tenants. The samplers were deployed in the lowest level of inhabitable space within each building. Inhabitable space was determined as whether it is possible and reasonable for an individual to conduct extended activities befitting of occupancy (e.g., sleeping, avocations, and/or food preparation) instead of determined by a formal evaluation such as building code standards.

2.1.2.4 Phase 2 Reporting

Following receipt of the analytical data from Phase 2, CDM prepared and submitted to the KDHE a memorandum-style summary of the Phase 2 results (CDM 2012a) to allow for discussion on proposed Phase 3 activities. The Phase 2 results are also discussed in Section 3 of this document, included in the

results tables, and posted as appropriate on the Section 3 figures. As noted in Section 1.4, the analytical data reports for Phase 2 are provided in **Appendix B**. The analytical results for outdoor air samples were evaluated, as appropriate, using the EPA's ProUCL software to determine a possible underlying data distribution and potential statistical application, such as 95% upper tolerance limits (UTLs) on the median of COPC data. The outdoor air statistics were evaluated qualitatively when compared to indoor air data (i.e., outdoor air metrics were evaluated from a perspective of the magnitude of indoor air COPC concentrations compared to the magnitude of outdoor air COPC concentrations). The Phase 2 memorandum also included recommendations for the Phase 3 sampling based on the Phase 2 results. These recommendations are summarized in Section 2.1.3.

2.1.3 Phase 3 – Verification Sampling

Phase 3 was designed as a more intensive evaluation to determine the probable cause of COPC concentrations found during Phase 2 to be greater than the KDHE Tier 2 risk-based cleanup goals. Proposed investigative techniques included a full building questionnaire and inventory, air sampling of indoor and sub-slab air, and an evaluation of indoor and VI sources using a field GC/MS. During Phase 2, CDM collected samples from 46 residential buildings, five daycare facilities, and 17 outdoor air sample locations. As discussed in the KDHE-approved VI Work Plan (CDM 2011a) and Addendum #1 (CDM 2012b), if an indoor air concentration for a COPC exceeded its corresponding KDHE Tier 2 risk-based indoor air cleanup goal, and the result was potentially attributable to VI, the building was targeted in the Phase 3 evaluation. Based on the data evaluation for the Phase 2 samples, and incorporating the EPA's updated quantitative toxicity data for TCE and PCE, none of the 51 buildings sampled (46 residential plus five daycares) met these criteria. CFM exceeded its Tier 2 goal in 20 of 46 samples and BEN exceeded its goal in nine of 46 samples although these exceedences were generally considered attributable to indoor air sources rather than groundwater (CDM 2012a). Results are further discussed in Section 3.

Buildings with no exceedances of KDHE Tier 2 risk-based indoor air cleanup goals for any COPC were recommended for no further sampling related to VI at this time; however, the VI Work Plan (CDM 2011a) called for re-sampling indoor air at 10% of these Phase 2 buildings using 6-liter stainless steel canisters to confirm the Phase 2 results. In addition, given the frequency with which CFM (43.5%) and BEN (19.6%) exceeded their Tier 2 cleanup goals in indoor air for residences (CDM 2012a), CDM and the City proposed to re-sample 5% of the buildings where CFM and/or BEN were detected above the KDHE Tier 2 goals using the full-scale Phase 3 approach. This included indoor air sampling with stainless steel canisters, the use of the portable GC/MS, and sub-slab sampling (if permission obtained). The extra level of effort was anticipated to provide confidence that the presence of both CFM and BEN are related to indoor sources rather than groundwater.

Based on proposed activities in the work plan (CDM 2011a), recommendations based on Phase 2 results (CDM 2012a), and following discussions with the KDHE during a teleconference on February 24, 2012 regarding the Phase 2 results and proposed Phase 3 activities, CDM and the City proposed the following specific activities for Phase 3:

- Re-sample indoor air at 10% of the 51 buildings (six locations – including at least one daycare) using stainless steel canisters to confirm Phase 2 findings. In addition, re-sample two additional buildings to better address the concerns of the KDHE regarding Tier 2 exceedences for CFM and BEN.

- Identify a 3-building subset of the 10%, for which CFM exceeded the Tier 2 cleanup goal, to re-sample using the full-scale Phase 3 investigative approach. In addition, re-sample one additional building (7th location) using the full-scale Phase 3 approach to better address the concerns of the KDHE regarding Tier 2 exceedences for both CFM and BEN.
- Re-sample five outdoor air locations (from Phase 2) in conjunction with the Phase 3 sampling.

In preparation for Phase 3, CDM and City staff contacted tenants/owners at the selected locations (L01, L20, L25, and L34) for permission to re-sample the buildings. Parties at all the selected locations were agreeable, the selected buildings for the Phase 3 investigations were scheduled, and the GC/MS subcontractor arranged to be onsite March 7-8, 2012. During a follow-up call to confirm resident availability, City staff learned that the owners at the L20 location had performed renovations over the weekend making the home unviable to sample during Phase 3. This home was removed from the 10% sampling list and an alternate location (L10) for the full-scale Phase 3 investigation was scheduled. CDM, City, subcontractor, and KDHE personnel arrived at the first scheduled location (L10) on March 7; however, the owners were not home to provide access. Field staff tried 13 additional alternate locations before obtaining access at L45. Final locations assessed during Phase 3 included:

- DC1 (Little Tykes Day Care Home) – part of the 10% assessment;
- DC4 (Envision Child Development Center) – part of the 10% assessment;
- L01 (CFM exceedences) – part of the 10% assessment and screened using the GC/MS;
- L09 (no exceedences) – part of the 10% assessment;
- L25 (CFM exceedences) – part of the 10% assessment and screened using the GC/MS;
- L34 (BEN and CFM exceedences) – part of the 10% assessment and screened using the GC/MS; and
- L45 (CFM exceedence) – part of the 10% assessment and screened using the GC/MS.

As discussed in the VI Work Plan (CDM 2011a), the field-portable GC/MS is an analytical tool that can be used to identify and quantify COPCs in the field to significantly reduce the cost, time, and uncertainties of environmental testing. The investigative approach for using the GC/MS was to analyze "grab" samples for COPCs from every room in each selected building. Rooms with elevated COPCs were further evaluated using a survey mode to screen individual products or entry routes for VI. If products containing COPCs were identified, they were removed or minimized where possible. If appropriate, the building was re-surveyed the next day, to determine if the removal/minimization worked or if possible additional indoor sources remained. Results for the GC/MS sampling will be discussed in Section 3.

During the GC/MS survey at each of the four residences listed above, CDM conducted the building questionnaire and product inventory (Appendix B of the VI Work Plan CDM 2011a]) with the property owners/tenants to also identify and remove (if feasible/allowed) potential indoor sources of COPCs and also identify preferred sampling locations for sub-slab and indoor air samples. At the L45 location, field staff placed products removed from the residence in an emission chamber (i.e., sealed plastic tote) for 15 minutes and then collected a 1-liter grab sample from the air inside the chamber. Results from this sample will also be discussed in Section 3.

Following the product inventory and GC/MS survey activities on March 7-8, 2012, field staff conducted indoor air and crawlspace/basement sampling (as described in Section 2.2 of the VI Work Plan [CDM

2011a]). Two of the seven locations listed above had crawlspaces (L09 and L25). Locations L01 and DC1 also reportedly had crawlspaces; however, the crawlspaces at these locations were not accessible. Locations L34 and L45 contained basements. The basement at L45 is occupied; the basement at L34 is used for laundry and storage. The Envision Child Development Center (DC4) is located within a commercial building containing additional offices. The building has a basement; however, children reportedly only enter the basement during inclement weather. Sampling in the basement at the DC1 location was not attempted. From March 7 through March 15, 2012, field staff used 6-liter stainless steel canisters to collect samples from the main living/working areas at each of the seven locations listed above, both basements (L34 and L45), and the crawlspaces at L09 and L25. Each sample was time-integrated over 24 hours using a dedicated, calibrated flow controller for each canister.

Under the revised plan based on Phase 2 results, sub-slab sampling in the daycares was not required. As noted in Section 2.1.2.2, access to the schools for any sampling was not granted. Permission for sub-slab sampling at location L45 was denied. Field staff made an attempt to collect a sub-slab sample from location L34; however, the attempt failed. The selected location appeared to be within a footing and the field staff did not have a drill bit long enough to penetrate the slab (over 12 inches thick). Permission to offset and drill a second hole was denied. No sub-slab samples were collected during this investigation.

CDM staff deployed the five outdoor air passive samplers for Phase 3 on March 6, 2012. The samplers were picked up on March 15, 2012 following completion of the Phase 3 re-sampling activities.

Air Toxics of Folsom, California again conducted the analyses for both the passive diffusion and canister samples. Analysis of the passive diffusion samplers was conducted by GC/MS using EPA Method TO-17 to thermally extract and analyze adsorbed VOCs from the sorbent. Air samples collected in stainless steel canisters were analyzed by GC/MS using EPA method TO-15.

2.2 Quality Assurance

2.2.1 Field QA/QC Samples

Field quality assurance (QA)/quality control (QC) procedures included: calibration of field instruments as appropriate prior to use (according to the manufacturer's procedures), verification of canister integrity prior to and post sample collection, and the use of chain-of-custody controls for sample management. Appendix D of the VI Work Plan (CDM 2011a) provided the standard operating procedures for the portable GC/MS unit.

Field QA/QC samples included collection of nine field duplicates using the passive diffusion samplers. Duplicate samples were co-located and placed concurrently with the primary/original samples (i.e., side-by-side). The duplicate samples were also handled and packaged in a manner identical to the other onsite samples collected and were analyzed for the same parameters as for the original samples. A discussion of original vs. duplicate results is provided in Section 3. The KDHE collected sample splits for analysis by the KDHE's laboratory during sampling at the daycare facilities.

2.2.2 Laboratory QA/QC Samples

The laboratory followed standard QC procedures designated for methods TO-15 and TO-17, including analysis of method blanks, laboratory control samples, surrogate standards, and laboratory duplicates. In addition, for TO-17 analysis, the Ultra III sampler has an embedded blank correction chamber that is analyzed in conjunction with the thermally extracted sample to certify the absence of cross-contamination from pre- and post-sampling exposure of the sampler. Appendix F of the VI Work Plan

(CDM 2011a) contained the TO-17 method manual from Air Toxics for thermal desorption, analysis, QC, and acceptance criteria for passive diffusion samplers.

2.2.3 Data Review and Validation

CDM reviewed and validated all of the analytical data for both Phase 2 and Phase 3 samples. As discussed in Section 4.3 of the VI Work Plan (CDM 2011a), the review assessed analytical quality using five data quality indicators: completeness, accuracy, precision, comparability, and representativeness. Results from the review are discussed in Section 3.

Phase 1

Building Selection:

- COPCs (PCE, TCE, C12DCE, VC, 11DCE, 11DCA, 111TCA, CT, CFM, BEN) based on RI/FS data
- Identification of potentially affected residences and schools/daycares by range of total PCE + TCE + C12DCE in shallow groundwater -
  - 1-5 µg/L, 5-20 µg/L, 20-100 µg/L, >100 µg/L
- Focus selection of residences and schools/daycares in the >100 µg/L range
- Select schools/daycares and a percentage of residences from other ranges (lower percentages per lower ranges) incorporating building style and spatial distribution

Submittal

Develop work plan and obtain KDHE and NIC TAC approval

Phase 2

Screening Evaluation (January/February 2012):

- Collection of outdoor air samples to establish ambient air conditions that contribute to indoor air quality -
  - 7-day passive diffusion samplers (TO-17) concurrent with indoor air screening
  - Calculate 95% UTL on median of data per COPC
- Indoor air screening -
  - Conduct simplified building questionnaire/product inventory at each sample location to screen for common products known to contain COPCs
  - 7-day passive diffusion samplers (TO-17)
- Risk Screening -
  - COPC Result (with qualitative consideration of ambient conditions) < Tier 2 screening level, then No Further Sampling at this Time
  - COPC Result (with qualitative consideration of ambient conditions) > Tier 2 screening level, then verification sampling

Submittal

Memorandum to the KDHE and NIC TAC summarizing screening results and recommendations for No Further Sampling or verification sampling

Phase 3

Verification Sampling (March2012):

- Collection of outdoor air samples - Sub-sampling of previous locations to confirm UTL (outcome = same or lower UTL)
- Indoor air assessment -
  - Conduct KDHE building questionnaire and product inventory at each sample location
  - Conduct field portable GC/MS survey of select residences: identification and minimization or removal, as feasible, of indoor sources of COPCs
  - Sub-slab and indoor air sampling with summa canisters (TO-15)
- Risk Screening -
  - COPC Result (with qualitative consideration of ambient conditions) < Tier 2 screening level, then NFo Further Sampling
  - COPC Result (with qualitative consideration of ambient conditions) > Tier 2 screening level, then re-evaluation or mitigation

Submittal

Vapor intrusion report to KDHE and NIC TAC providing investigative results, findings, and recommendations for no further sampling, mitigation, and/or potential investigation of other buildings

Advantages of Proposed Approach

- Focus on COPCs as defined by the RI/FS
- Ranges of total PCE/TCE/C12DCE in shallow groundwater allow for focus on buildings with most potential for complete VI pathway
- Statistically-based background outdoor air concentrations
- Use of passive diffusion samplers as a screening tool allows for a quantitative risk evaluation at the point of exposure and the ability to screen more residences compared to a soil gas survey or conventional indoor air/sub-slab assessment
- Decisions not based on generic attenuation factors with unknown reliability
- Use of field portable GC/MS allows for superior precision in identification of indoor sources and potential vapor intrusion entry points

µg/L = micrograms per liter
GC/MS = Gas chromatography/mass spectroscopy
FS = Feasibility Study (CDM 2011b)
KDHE = Kansas Department of Health and Environment

NIC TAC = North Industrial Corridor Technical Advisory Committee
RI = Remedial Investigation (CDM 2007a and CDM 2007b)
UTL = Upper tolerance limit

COPCs = Contaminants of potential concern
PCE = Tetrachloroethene
TCE = Tricloroethene
C12DCE = *cis* -1,2-Dichloroethene
VC = Vinyl chloride
11DCE = 1,1-Dichloroethene

11DCA = 1,1-Dichloroethane
111TCA = 1,1,1-Trichloroethane
CT = Carbon tetrachloride
CFM = Chloroform
BEN = Benzene

CDM Smith

Figure 2-1
North Industrial Corridor (NIC) Site
Vapor Intrusion Evaluation Process

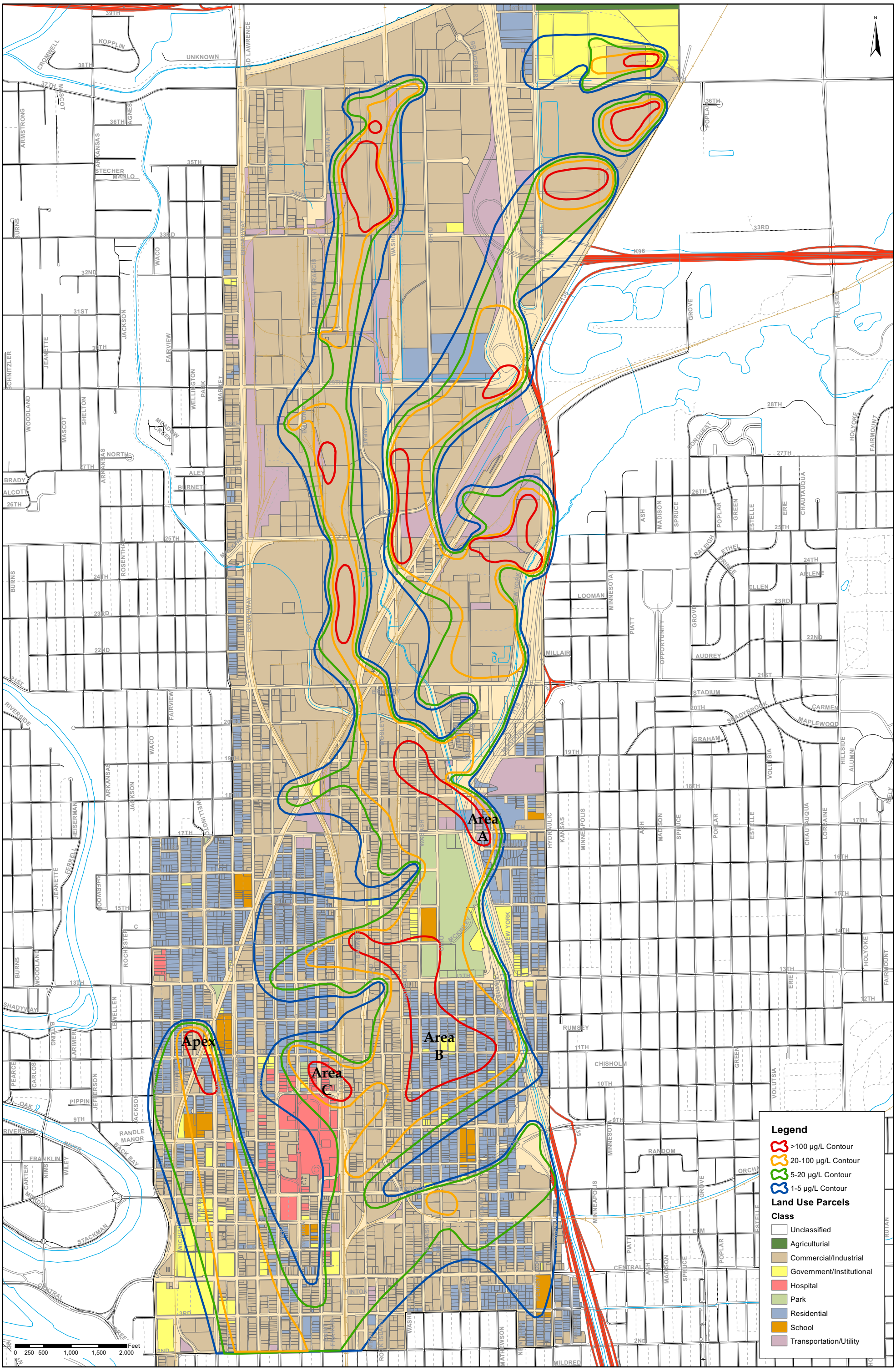

Figure 2-2
North Industrial Corridor (NIC) Site
Shallow Groundwater TCE/PCE/C12DCE Contours and Land Use Categories

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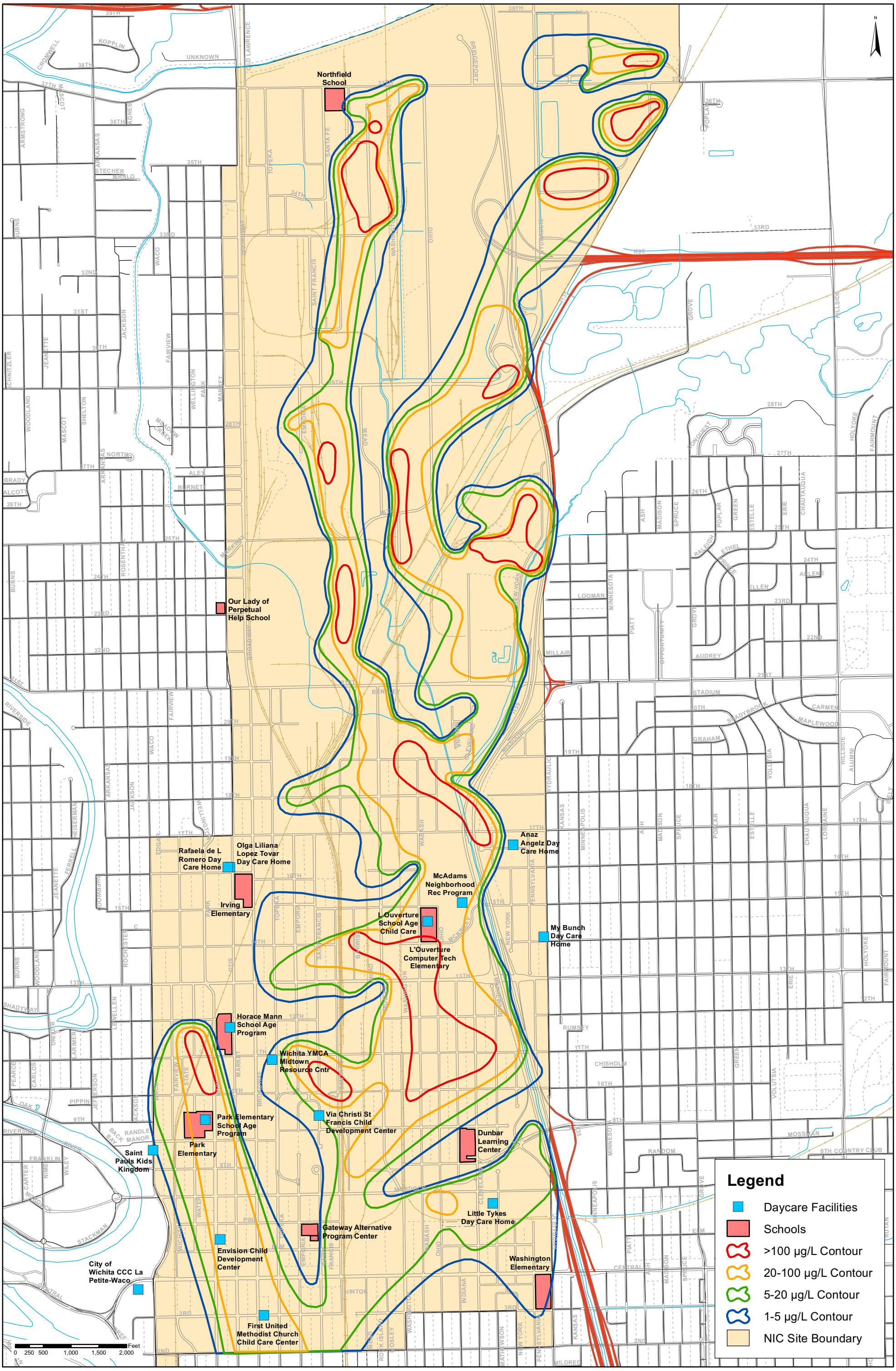
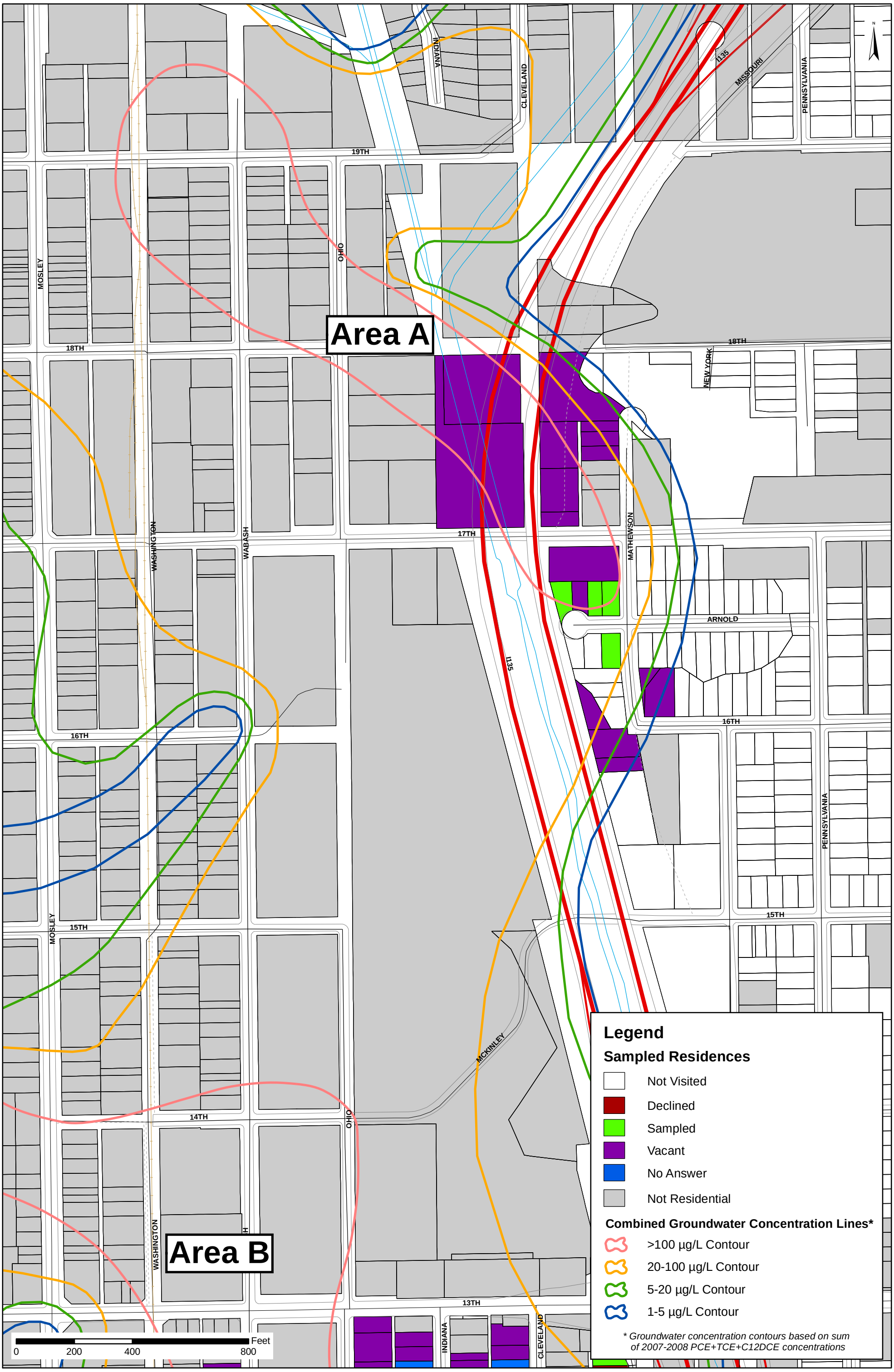


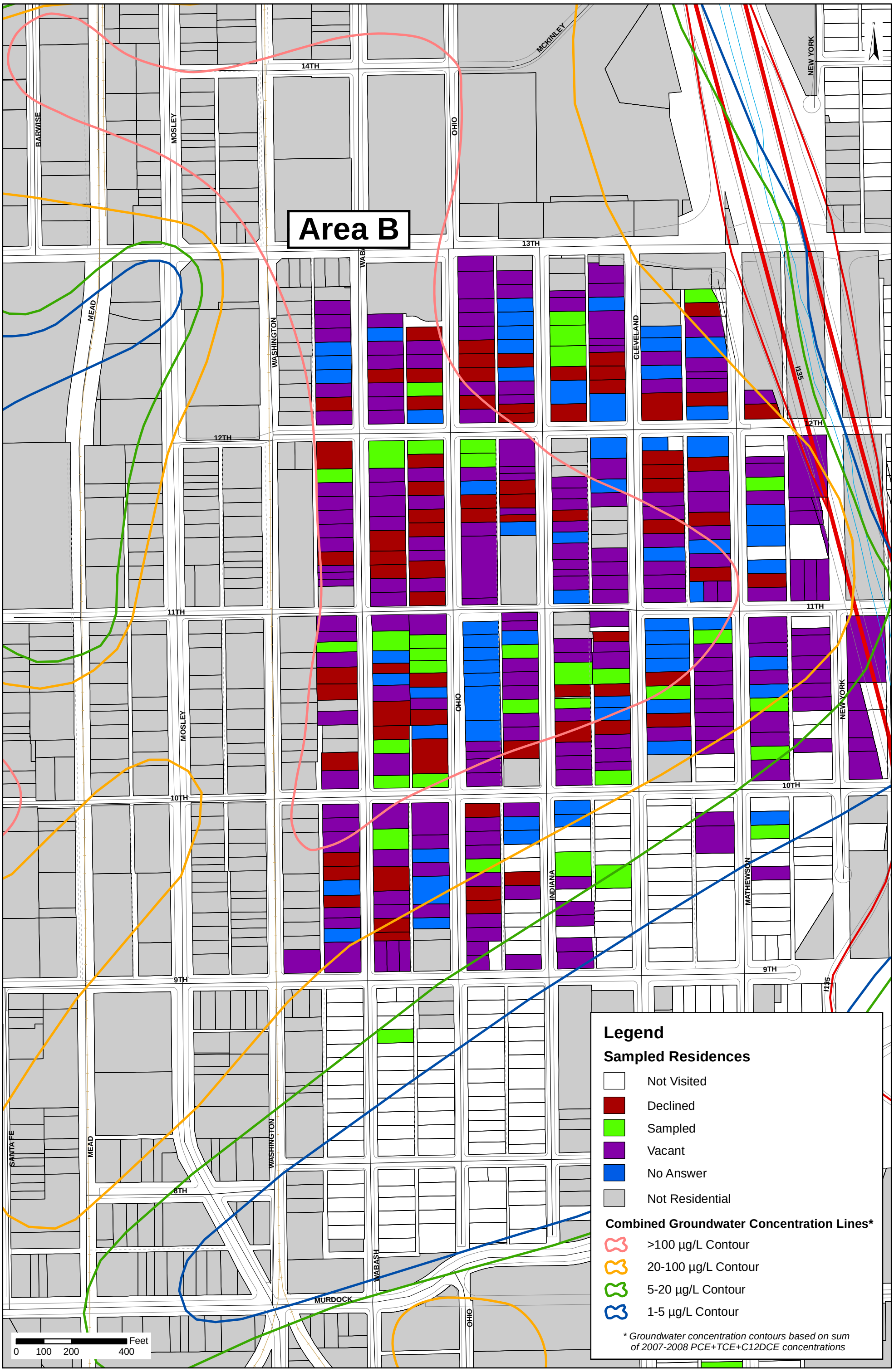
CDM Smith

Figure 2-3
North Industrial Corridor (NIC) Site
Schools and Daycare Facilities



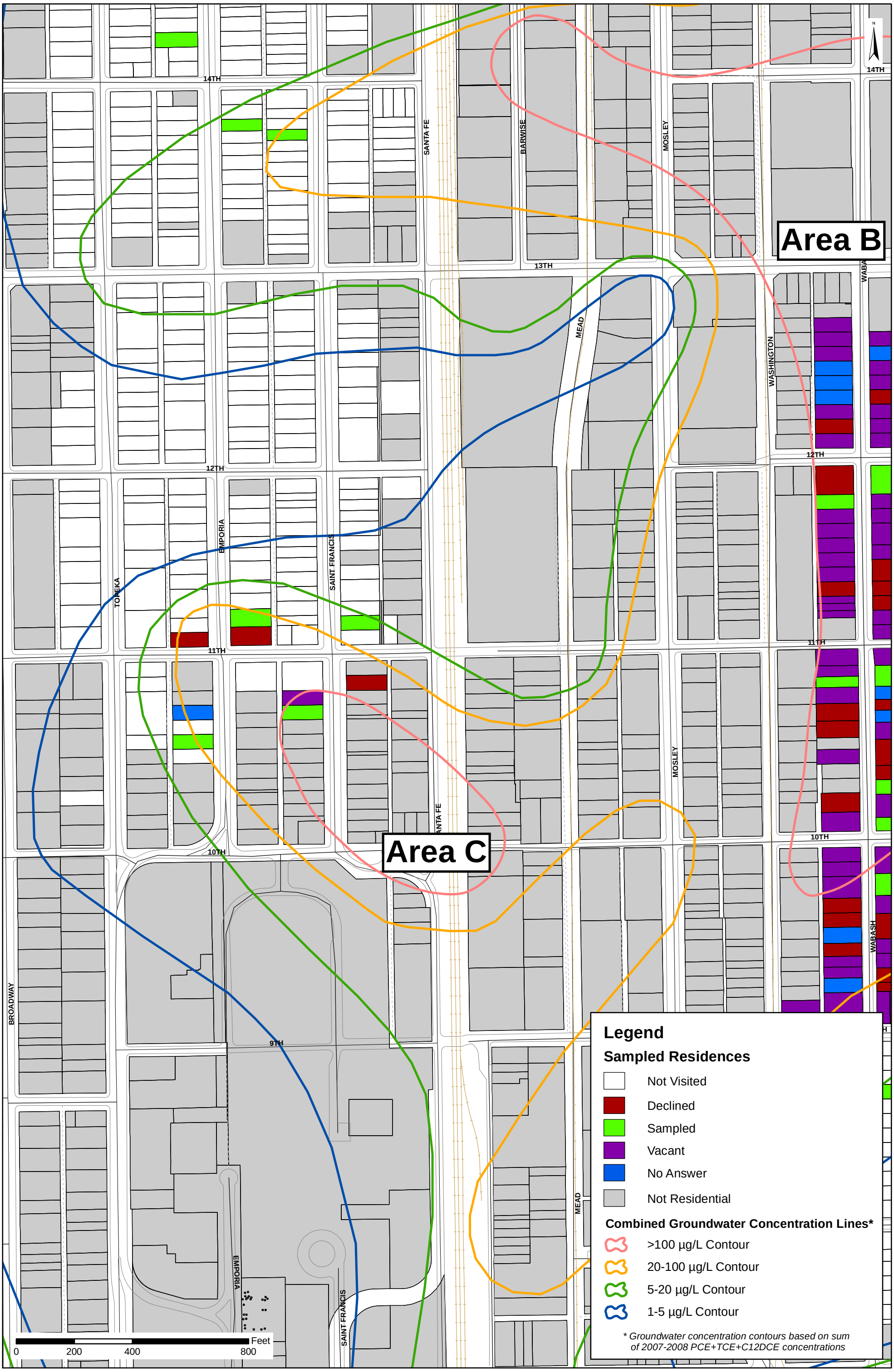
CDM Smith

Figure 2-6
North Industrial Corridor (NIC) Site
Attempted Residential Sampling - Area A



CDM Smith

Figure 2-7
North Industrial Corridor (NIC) Site
Attempted Residential Sampling - Area B



CDM Smith

Figure 2-8
North Industrial Corridor (NIC) Site
Attempted Residential Sampling - Area C

Section 3
Results

This section presents the results from the field activities conducted during the VI assessment. Analytical laboratory data from the Phase 3 investigation are included in **Appendix B**. Analytical laboratory data from the Phase 2 investigation were provided in the February 28, 2012 Technical Memorandum (CDM 2012a) submitted to the KDHE and are therefore not included herein.

3.1 Air Sampling Results

3.1.1 Phase 2 – Screening Evaluation

During Phase 2, 46 residential buildings; five daycare facilities; and 17 outdoor air sample locations were tested. **Table 3-1** summarizes indoor air results for the Phase 2 passive diffusion samples; **Table 3-2** provides results for the outdoor air passive diffusion samples. Phase 2 samples in **Table 3-2** are designated by "Ph2" at the end of the location identifier. **Figures 3-1** through **3-4** show results for TCE, PCE, CFM, and BEN, respectively, in the indoor and outdoor air passive diffusion samples collected during Phase 2. For the daycares with multiple indoor air sample locations, the highest detected value is posted on the figures.

3.1.1.1 Passive Diffusion Sampler Results

- None of the analytical results for the five daycares sampled during Phase 2 exceeded their respective Tier 2 cleanup goals.

- None of the TCE results exceeded the Tier 2 cleanup goal of 2.09 µg/m^3 (**Tables 3-1** and **3-2**). **Figure 3-1** shows indoor air results for TCE per building as well as outdoor air results. Indoor air results ranged from 0.084 µg/m^3 (in DC2-LNG_Ph2) to 0.71 µg/m^3 (in L39_Ph2); outdoor air results ranged from 0.035 µg/m^3 (in OA15_Ph2) to 0.14 µg/m^3 (in OA14_Ph2).

- None of the PCE results exceeded the Tier 2 cleanup goal of 41.7 µg/m^3 (**Tables 3-1** and **3-2**). **Figure 3-2** shows indoor air results for PCE per building as well as outdoor air results. Indoor air results ranged from 0.12 µg/m^3 (in several samples) to 10 µg/m^3 (in L20_Ph2); outdoor air results ranged from 0.087 µg/m^3 (in OA11_Ph2) to 0.2 µg/m^3 (in OA12_Ph2). The maximum result of 10 µg/m^3 in L20_Ph2, which exceeded the next highest of 3.4 µg/m^3 in L20_Ph2, is believed to have been caused by recent renovations within the home.

- CFM exceeded the Tier 2 cleanup goal of 1.06 µg/m^3 in 20 of the 46 residential buildings (**Table 3-1**). Indoor air results ranged from 0.075 µg/m^3 (in DC2-LNG_Ph2 and L06_Ph2) to 18 µg/m^3 (in L10_Ph2); outdoor air results ranged from less than 0.019 µg/m^3 (in OA13_Ph2) to 0.061 µg/m^3 (in OA12_Ph2) (**Table 3-2**). **Figure 3-3** shows indoor air results for CFM per building as well as outdoor air results. The potential that CFM in indoor air is attributable to VI is unlikely. During the 2007 cumulative groundwater monitoring event, only 20 of 374 sampled monitoring wells (5.3%) had detectable concentrations of CFM (16 shallow wells and four deep wells). **Figure 3-3** also provides a comparison of CFM in indoor air vs. CFM concentrations in groundwater from the 2007 monitoring event. Detected CFM concentrations in the deep wells ranged from 1.1 µg/L to 20.5 µg/L, all well below the Tier 2 groundwater cleanup goal of 80 µg/L. Detected CFM concentrations in the shallow wells ranged from 0.32 µg/L to 180 µg/L.

Thirteen of the detected shallow concentrations were below 22 µg/L, well below the Tier 2 groundwater cleanup goal of 80 µg/L; CFM in four shallow wells exceeded the Tier 2 cleanup goal. Of the 20 wells in 2007 containing detected CFM in groundwater, 11 are located in the northern, industrial part of the site and are therefore not immediately adjacent to any of the buildings sampled for VI. The remaining nine wells (CG-MW-2A, CG-MW-3A, CG-MW-5A, CG-MW-6A&B, NBPN-MW-03, NMW-17S, NMW-20S, and WND-43D – locations shown on **Figure 3-3**) are also not immediately adjacent to any of the buildings sampled for VI. In addition, CFM has many common indoor sources such as treated municipal tap water, air fresheners, and detergents.

- BEN exceeded the Tier 2 cleanup goal of 3.12 µg/m^3 in nine of the 46 residential buildings (**Table 3-1**). Indoor air results ranged from less than 0.3 µg/m^3 (in L07_Ph2) to 84 µg/m^3 (in L34_Ph2). **Figure 3-4** shows indoor air results for BEN per building as well as outdoor air results. Similar to CFM, the potential that BEN is attributable to VI is unlikely. While groundwater plumes of BEN are present within the NIC Site, mostly near the former Coastal Derby Refinery, BEN has not been regularly detected in groundwater in the southern portion of the NIC Site where the indoor air detections of BEN occurred. **Figure 3-4** also provides a comparison of BEN in indoor air vs. BEN concentrations in groundwater from the 2007 monitoring event. In addition, BEN was detected in every outdoor air sample (**Table 3-2**). Outdoor air results ranged from 0.56 µg/m^3 (in OA03_Ph2and OA17_Ph2) to 0.91 µg/m^3 (in OA04_Ph2and OA12_Ph2) with a mean of 0.73 µg/m^3. These data appear to be normally distributed based on a goodness-of-fit distribution test using EPA ProUCL software, and a resulting 95% upper tolerance limit on the median of the dataset is 0.80 µg/m^3. Accounting for this statistically-based average ambient contribution to indoor air, two of the BEN results for indoor air (3.3 µg/m^3 in L15 and 3.2 µg/m^3 in L30) likely do not exceed the Tier 2 cleanup goal. Lastly, it is well documented that there are many dilute indoor sources for BEN, and petroleum hydrocarbons in general, that frequently impact indoor air quality. For the samples that exceeded the Tier 2 cleanup goal for BEN, the analytical results also showed elevated levels of hexane (HEX), ethylbenzene (EBN), toluene (TOL), and xylenes (XYL). This pattern of multiple hydrocarbons in indoor air suggests a complex mixture of indoor and ambient sources and not VI of a single COPC. The weight of evidence does not indicate that BEN poses a risk for VI at the NIC Site.

- Several non-COPC compounds were detected in the passive diffusion samples during Phase 2 including: acetone (ACE), cyclohexane (CHEX), 1,2-dichloroethane (12DCA), EBN, HEX, heptane (HP), methylene chloride (MECL), 2-butanone (methyl ethyl ketone) (MEK), methyl tert-butyl ether (MTBE), TOL, m,p-xylene (XYLMP), and o-xylene (XYLO). Most of the detected concentrations for these compounds were below their respective Tier 2 cleanup goals. Compounds with exceedences included the following:

  - 12DCA (Tier 2 limit of 0.936 µg/m^3): 2.2 µg/m^3 in L10_Ph2, 1.1 µg/m^3 in P15_Ph2, 2 µg/m^3 in L33_Ph2, 1.9 µg/m^3 in L36_Ph2, 3.7 µg/m^3 in L42_Ph2, 4 µg/m^3 in P47/C4_Ph2;
  - EBN (Tier 2 limit of 9.73 µg/m^3): 12 µg/m^3 in L15_Ph2, 97 µg/m^3 in L34_Ph2, 12 µg/m^3 in L39_Ph2, 9.9 µg/m^3 in L41_Ph2;
  - XYLMP (Tier 2 limit of 104 µg/m^3): 260 µg/m^3 in L34_Ph2; and
  - XYLO (Tier 2 limit of 104 µg/m^3): 130 µg/m^3 in L34_Ph2.

3.1.1.2 Canister Sample Results

Table 3-3 includes results for the five indoor air canister samples collected during Phase 2. Phase 2 samples in the table are designated by "Ph2" at the end of the location identifier.

- Neither TCE nor PCE were detected in any of the Phase 2 canister samples.
- CFM was not detected in any of the Phase 2 canister samples; however, as further discussed in Section 3.2.3, the non-detect RLs for CFM in four of the samples exceeded the Tier 2 cleanup goal.
- BEN was detected in three of the five Phase 2 canister samples at concentrations below the Tier 2 cleanup goal (0.78 μg/m^3 in DC5-109C/C5_Ph2, 0.95 μg/m^3 in L13/C1_Ph2, and 2.4 μg/m^3 in L47/C4_Ph2).
- None of the other COPCs were detected in the Phase 2 canister samples.
- Several non-COPC compounds were detected in the canister samples during Phase 2 including: ACE, carbon disulfide (CDS), chloromethane (CM), CHEX, 1,4-dichlorobenzene (14DCB), 12DCA, dichlorodifluoromethane (Freon 12) (DCDFM), ethanol (ETH), 4-ethyltoluene (4ETOL), EBN, HEX, HP, MECL, MEK, 2-propanol (isopropylalcohol) (IPA), TOL, trichlorofluoromethane (Freon 11) (TCFM), 1,2,4-trimethylbenzene (124TMB), XYLMP, and XYLO. Most of the detected concentrations for these compounds were below their respective Tier 2 cleanup goals. Compounds with exceedences included the following:
    - 12DCA (Tier 2 limit of 0.936 μg/m^3): 1.3 μg/m^3 in L22/C3_Ph2, and
    - 14DCB (Tier 2 limit of 2.21 μg/m^3): 3.5 μg/m^3 in L47/C4_Ph2.

3.1.1.3 Data Quality for Passive Diffusion Samplers

Table 3-4 provides comparisons between the five co-located, indoor air passive diffusion and canister samples collected during Phase 2. Sample duration between the samplers is not equal (seven days for the passive diffusion samples and 24 hours for the canister samples); therefore, the results are not fully comparable. For almost every COPC in each sample, the passive diffusion sample provided a more sensitive reporting limit that generally was more than an order of magnitude less than the canister sample. For instance, TCE was not detected (RL at 1.7 μg/m^3) in the canister sample at L22/C3_Ph2, but the passive diffusion sample yielded a concentration of 0.087 μg/m^3, thereby providing significantly better quantification of indoor air quality. In addition, for the three instances where a COPC was detected in both the passive diffusion and canister samples (BEN at DC5-109C/C5_Ph2, L13/C1_Ph2, and L47/C4_Ph2), the results were comparable: for DC5-109C/C5_Ph2 – 0.78 μg/m^3 (canister) vs. 1.1 μg/m^3 (passive); for L13/C1_Ph2 – 0.95 μg/m^3 (canister) vs. 1.4 μg/m^3 (passive); and for L47/C4_Ph2 – 2.4 μg/m^3 (canister) vs. 2.0 μg/m^3 (passive). The similarity of these results between the passive and canister samples at each location provides confidence that chemical uptake in the passive diffusion sampler is sufficient to demonstrate that the passive sampler is not potentially under-estimating risk.

Table 3-5 shows that duplicate pairs for the passive diffusion samplers have good precision, thereby supporting the reproducibility of collecting data using passive diffusion samplers. Relative percent differences for duplicates are further discussed in Section 3.2.2.

3.1.2 Phase 3 – Verification Sampling

During Phase 3, indoor air at five residential buildings and two daycare facilities, and outdoor air at five sample locations, were re-tested. Four of the residential buildings were further analyzed using the portable GC/MS. **Table 3-2** provides results for the outdoor air passive diffusion samples; **Table 3-3** includes indoor air results for the Phase 3 canister samples. Phase 3 samples in both **Tables 3-2** and **3-3** are designated by "Ph3" in location identifier.

3.1.2.1 HAPSITE Survey

To evaluate potential vapor intrusion from a subsurface source, it is necessary to consider whether VOCs detected in indoor air may alternately be present as "background sources" within the building. "Background sources" are as sources of VOCs other than those potentially contributed by a subsurface source (e.g. consumer products, building materials, combustion sources). Background indoor air concentrations of VOCs are affected by the activities, lifestyles, and products used by the occupants; consequently, background contribution is variable and building-specific. As part of the Phase 3 investigation and as discussed in Section 2.1.3, CDM selected four of the buildings sampled during Phase 2 (L01, L25, L34, and L45) for further investigation using a field-portable GC/MS at the start of the Phase 3 sampling to analyze "grab" samples for COPCs from every room in each selected building. CDM contracted the Center for Toxicology and Environmental Health, L.L.C. (CTEH) from Little Rock, Arkansas to perform the investigation. CTEH conducted indoor air sampling and monitoring for potential identification of "background sources" by focusing on indoor source survey and removal utilizing the HAPSITE® ER portable GC/MS. The GC/MS investigation is discussed below and a copy of CTEH's report on the findings is provided in **Appendix C**.

CTEH used the portable GC/MS in both the quantitative (sampling) and semi-quantitative (survey or monitoring) modes. In the quantitative mode, a discrete "grab" sample was collected for approximately one minute and analyzed by the GC/MS-Selective Ion Monitoring (SIM) method. The GC/MS analysis focused on BEN and CFM, the COPCs detected at concentrations exceeding the KDHE Tier 2 cleanup goals during the Phase 2 sampling. Quantitative samples were collected, at minimum, in rooms on the main living area of the structure to obtain an estimated baseline of VOC concentrations. If a basement or crawlspace was accessible, at least one sample was also collected in that area.

Quantitative results were reviewed in real time and if concentrations of one or more of the COPCs exceeded the screening values or additional investigation was needed to determine the background source, the rooms with elevated COPCs (as identified by analysis of the "grab" samples) were further evaluated using a survey mode to screen individual products or for entry routes for VI. In the survey mode, the GC was bypassed and the MS detector was used to screen for selected masses. To do this, the instrument probe was slowly drawn across various products, materials, shelving, etc. while continuously drawing air into the MS detector. The instrument output screen was monitored for "peaks" above the baseline, which would suggest the presence of the target compounds at that location. If a "peak" indicated the potential presence of a COPC, the product or area was often re-screened to confirm the measurement. If products or background sources containing COPCs were identified, the sources were removed or minimized where possible, and if permission was granted by the resident. If appropriate, the building was re-surveyed the next day, to determine if the removal/minimization worked or if possible additional indoor sources remained. Removed sources were generally relocated to outside storage or a detached garage until the 24-hour indoor air sampling was completed.

Quantitative and semi-quantitative (survey) summaries are included in CTEH's report (**Appendix C**). Quantitative results are provided for the COPCs in parts per billion by volume (ppbv) and converted to µg/m^3. Pictures of the chromatograms generated during sampling are provided following the results tables in the report (**Appendix C**) where peaks are visible. Survey summaries in the report include photographs of the products identified as background sources or suspected background sources, as well as the associated COPC(s) and level of confidence in source identification. Each spectrogram associated with the product screened displays "peaks" at the elapsed time and relative intensity. If no "peaks" were observed while the instrument was running in the survey mode at a specific location or for an entire property, a summary was not included in the report.

During the GC/MS survey at each of the four residences, CDM conducted the building questionnaire and product inventory (Appendix B of the VI Work Plan CDM 2011a]) with the property owners/tenants to also identify and remove (if feasible/allowed) potential indoor sources of COPCs and also identify preferred sampling locations for sub-slab and indoor air samples. Copies of the completed questionnaires are provided in **Appendix D**. Using the portable GC/MS, sources were identified in three of the residences: L25, L34, and L45. At the L45 location, field staff placed products removed from the residence in an emission chamber for 15 minutes and then collected a 1-liter grab sample from the air inside the chamber. Results from this chamber sample are discussed in Section 3.1.2.3. Portable GC/MS indoor air results are summarized below.

L01 – 1105 E. 12th St., #100A

During Phase 2, CFM was detected in this apartment residence at 1.6 µg/m^3 (exceeding the Tier 2 cleanup goal of 1.06 µg/m^3). During Phase 3, low levels of CFM were found in indoor air consistently throughout the residence by the portable GC/MS at concentrations ranging from 0.69 to 1.13 µg/m^3 with most of the detected concentrations exceeding the Tier 2 cleanup goal. Typically, if a background source is present, the indoor air concentration of the target compound will increase closer to the source, and decrease farther from the source. In the case of the L01 residence, CFM concentrations were generally consistent throughout the apartment; the highest CFM concentrations were observed in the living room and bathroom, respectively, at 1.13 µg/m^3 and 1.11 µg/m^3. Potential background sources were identified in the bathroom that may have contributed to the elevated concentrations (above the screening value). Given the quantitative ('grab" sample) results, CTEH performed semi-quantitative screening using the MS only mode (survey mode) around cleaning products in the laundry area, products stored under the kitchen sink, and items stored in the bathroom. Because CFM concentrations were fairly uniform throughout the property, additional sources may have been present and not identified. An example of a potential background source, though not found using the GC/MS, is bleach. Containers of bleach were observed in the laundry area of the apartment and by the door leading to the kitchen. If CFM vapors emitted from the bleach containers were at similar concentrations to indoor air, the MS would not differentiate the source from the background.

In addition, the City of Wichita chlorinates the public drinking water supply and it was proposed that CFM concentrations may have been off-gassing from treated city water. To assess this, field staff experimented by testing a boiling pot of treated city water and around hot water drawn from a faucet to see if CFM was identified using the GC/MS. CFM was not identified by the GC/MS in screening mode; however if the CFM concentrations from the treated water were similar to the indoor air concentrations, again, the instrument would not differentiate background from source.

L25 – 1402 E. Arnold St.

During Phase 2, CFM was detected in this residence at 4.6 µg/m^3 (exceeding the Tier 2 cleanup goal of 1.06 µg/m^3). During the Phase 2 sampling, a scented candle had been burning on a nearby shelf. Quantitative GC/MS indoor air sample results collected from the crawlspace and main level at this residence during Phase 3 were below the KDHE Tier 2 cleanup goals for CFM as well as below the method RLs (lowest calibration level). Possible sources identified using the semi-quantitative survey mode (primarily cleaning supplies) were found under the kitchen and bathroom sinks. These products were removed prior to 24 hour sampling and the resident was asked to not use air fresheners or burn candles during the Phase 3 sampling. CFM was not detected in the living room or crawlspace canister samples collected during Phase 3.

L34 – 1035 N. Cleveland Avenue

During Phase 2, CFM was detected in this residence at 4.7 µg/m^3 (exceeding the Tier 2 cleanup goal of 1.06 µg/m^3), BEN was detected at 84 µg/m^3 (exceeding the Tier 2 cleanup goal of 3.12 µg/m^3). When retrieving the sampler from this residence during Phase 2, field personnel were notified by the resident that the sampler had been "messed with" although the resident did not provide any specifics.

CTEH conducted sampling using the portable GC/MS on March 8, 2012. Quantitative indoor air results were below both screening values for the COPCs and method RLs in the basement (used for storage and laundry), living room, and the kitchen. The "grab" sample collected from the open sump in the basement showed no detections of the COPCs above the RLs. The sample collected in the kitchen by the door leading to the attached garage, before the door was opened, resulted in no detections of any of the COPCs.

Because the garage is attached and opening the door allows increased air exchange between the garage and main living area, CTEH collected a "grab" sample in the garage in order to determine if the products stored in the garage (such as paints and other remodeling products) could be contributing background sources. There was "presumptive evidence" (i.e., small peaks in the chromatogram) of BEN in the garage. Subsequently, three additional samples were collected in the kitchen by the garage entry (with the door closed) to determine any change in indoor air concentrations. The first sample (SIMQuantNIC_20120308_019) showed CFM at 2.38 µg/m^3. CTEH collected a second sample in the same location approximately 15 minutes later (SIMQuantNIC_20120308_020). This sample showed BEN at 2.07 µg/m^3. Results in the third sample collected after the door to the garage had been closed (SIMQuantNIC_20120308_021) were below RLs. These tests indicate indoor air concentrations of CFM and BEN increased after the garage door was opened then subsequently decreased. The increased concentrations of the COPCs found at this residence in the Phase 2 sample can therefore probably be attributed to sources stored in the garage rather than from sources stored in the house or from VI. BEN and CFM concentrations in the living room and basement canister samples collected from this residence during Phase 3 were below their respective Tier 2 cleanup goals.

L47 – 1347 Mathewson Street

During Phase 2, CFM was detected in this residence at 1.4 µg/m^3 (exceeding the Tier 2 cleanup goal of 1.06 µg/m^3). Using the portable GC/MS, indoor air samples were collected throughout the basement and main levels of the house on March 7, 2012. CFM concentrations were higher in the basement with increasing concentrations closer to the laundry room where several cleaning products (including bleach) were later identified as possible and likely background sources. All

suspected background products were moved temporarily outside. Selected products were then sampled as discussed in Section 3.1.2.3. Following the emission chamber sampling, all products were relocated to the detached garage until 24-hour canister sampling was completed.

Given the presence of likely background sources, 24-hour sampling was postponed. CTEH revisited the residence on March 8, 2012 (following day) to perform confirmation sampling using the GC/MS in order to determine if the indoor concentrations of the COPCs had decreased following the removal of the identified and suspected background sources. To assess whether CFM was volatilizing from beneath the house, a quantitative sample was collected in the basement sump (SIMQuantNIC_20120308_011); CFM was not detected above the RL of 0.24 µg/m^3 indicating that the presence of the previously identified possible background sources most likely contributed to the increased indoor air concentrations of CFM rather than VI. In addition, confirmation sampling results showed a decrease in indoor air concentrations of CFM in both the basement and main level of the residence.

Data qualifications and usability for the portable GC/MS investigation are discussed in Section 3.2.1.

3.1.2.2 Outdoor Air Results

During Phase 3, five of the outdoor air locations from Phase 2 were re-tested to confirm Phase 2 results: OA04, OA05, OA06, OA10, and OA17. These locations were chosen to correspond to areas where Phase 3 indoor sampling occurred. Results show similar concentrations in detected compounds between the Phase 2 and Phase 3 sampling events (**Table 3-2**).

Table 3-5 includes results for the passive diffusion sampler duplicate pair collected during Phase 3 (outdoor air). Relative percent differences for duplicates are further discussed in Section 3.2.2.

3.1.2.3 Emission Chamber Results

As noted in Section 2.1.3, field staff placed products removed from the residence at L45 in a sealed emission chamber (i.e., plastic tote) for 15 minutes and then collected a 1-liter grab sample from the air inside the chamber. The products placed in the chamber exhibited the highest readings during HAPSITE testing (discussed above): 1 bottle each of Great Value Rain Scent bleach, Mean Green mildew destroyer, and Soft Scrub with bleach.

Compounds detected in the chamber sample (L45_Ph3_TOTE) (**Table 3-3**) were: CT, CFM, ETH, and TOL. Of these four compounds, CT and CFM exceeded their respective Tier 2 cleanup goals:

- CT: 12 µg/m^3 vs. the Tier 2 goal of 4.06 µg/m^3.
- CFM: 79 µg/m^3 vs. the Tier 2 goal of 1.06 µg/m^3.

TCE was not detected in the emission chamber sample; however, due to dilution, the RL for TCE in this sample exceeded the Tier 2 cleanup goal.

3.1.2.4 Canister Sample Results

Table 3-3 includes results for indoor air canister samples collected during Phase 3. Phase 3 samples in the table are designated by "Ph3" in the location identifier. Some Phase 3 locations may have been sampled more than once (e.g., both living room and crawlspace).

- None of the analytical results for the COPCs at the two daycares exceeded their respective Tier 2 cleanup goals. For the remaining detected compounds in the daycare samples, only one

compound was detected at a concentration exceeding its respective Tier 2 cleanup goal (1,3-Butadiene: 0.91 µg/m^3 in DC1-LR_Ph3 vs. the Tier 2 goal of 0.811 µg/m^3).

- Neither TCE nor PCE were detected in any of the Phase 3 canister samples (less than 2.3 µg/m^3 for TCE and less than 2.9 µg/m^3 for PCE); however, as further discussed in Section 3.2.3, the non-detect RL for TCE in one of the samples (excluding the chamber sample) exceeded the Tier 2 cleanup goal.
- CFM was detected in two of the 11 Phase 3 canister samples at concentrations below the Tier 2 cleanup goal (0.97 µg/m^3 in L01_Ph3_LVR and 1.4 µg/m^3 in L45_Ph3_BSMT). CFM was detected in one of the 11 Phase 3 canister samples at a concentration exceeding the Tier 2 cleanup goal (5.1 µg/m^3 in L09_Ph3_LVR). A canister sample for Location L09 was not collected during Phase 2; CFM in the passive sampler for the L09 location during Phase 2 was 0.8 µg/m^3. As further discussed in Section 3.2.3, the non-detect RL for CFM in one of the Phase 3 samples exceeded the Tier 2 cleanup goal.
- BEN was detected in eight of the 11 Phase 3 canister samples at concentrations below the Tier 2 cleanup goal (ranging from 0.82 µg/m^3 in L45_Ph3_BSMT to 1.8 µg/m^3 in L25_Ph3_LVR).
- None of the other COPCs were detected in the Phase 3 canister samples.
- Several non-COPC compounds were detected in the canister samples during Phase 3 including: ACE, 1,3-butadiene (13BD), CM, CHEX, 14DCB, 12DCA, DCDFM, 1,4 dioxane (14DX), ETH, 4ETOL, EBN, HEX, HP, isopropylbenzene (IPB), MEK, IPA, n-propylbenzene (NPB), styrene (STY), TOL, TCFM, 124TMB, 1,3,5-trimethylbenzene (135TMB), 2,2,4-trimethylpentane (224TMP), XYLMP, and XYLO. Most of the detected concentrations for these compounds were below their respective Tier 2 cleanup goals. Compounds with exceedences included the following:
    - 13BD (Tier 2 limit of 0.811 µg/m^3): 0.91 µg/m^3 in DC1-LR_Ph3,
    - 12DCA (Tier 2 limit of 0.936 µg/m^3): 1.2 µg/m^3 in L25_Ph3_LVR,
    - 14DCB (Tier 2 limit of 2.21 µg/m^3): 12 µg/m^3 in L45_Ph3_BSMT and 3.6 µg/m^3 in L45_Ph3_LVR,
    - EBN (Tier 2 limit of 9.73 µg/m^3): 10 µg/m^3 in L34_Ph3_LVR, and
    - 124TMB (Tier 2 limit of 7.3 µg/m^3): 17 µg/m^3 in L34_Ph3_BSMT and 20 µg/m^3 in L34_Ph3_LVR.

3.2 Data Review and Validation

QA/QC actions taken to ensure completeness and correctness of data measures ensure that sampling results are usable. QA/QC procedures and data usability for the portable GC/MS investigation are discussed in Section 3.2.1. Sections 3.2.2 through 3.2.4 discuss results for the analytical data review and validation for the passive diffusion and canister samples collected during Phases 2 and 3. Sample data were assessed using five data quality indicators: completeness, accuracy, precision, comparability, and representativeness. Data validation work sheets are provided in **Appendix E**.

3.2.1 Portable GC/MS QA/QC Procedures

CTEH used the quantification method "SIMQuantNIC" for this project. For the purposes of the investigation, the lower and upper calibration limits (lowest and highest calibration standards) were also used to flag data, e.g., if instrument software provided a concentration of a COPC below the lowest calibration standard, the data was flagged with a "J". The lower and upper calibration limits are provided in CTEH's report in **Appendix C**. When there was presumptive evidence (i.e., small peaks in the chromatogram) within the retention window criteria of the presence of the analyte, the "N" flag was used; however, instrument software did not calculate a concentration because the peak was outside of the search parameters. Flags or qualifiers used by CTEH are as follows:

- U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
- N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
- J – Estimated concentration. The compound was detected at a concentration less than the Lower Calibration Limit; therefore, the associated numerical value is the approximate concentration of the analyte in the sample.

As part of the QA/QC measures, CTEH:

- Performed an instrument performance check (MS tune) to establish that the GC/MS system met the mass spectral ion abundance criteria;
- Analyzed instrument performance check solutions and continuing calibration verification (CCV) standards at least once daily to ensure the instrument was within acceptable calibration criteria prior to field sample collection;
- Prepared and analyzed method blanks (MBs; nitrogen only) to monitor for contamination; and
- Injected system monitoring compounds (Internal Standards) into each sample to ensure the GC/MS sensitivity and response were stable during each analytical run. Samples would have been flagged if not within criteria (-50-+100% area, ± 30 second retention time shift).

CTEH's report in **Appendix C** discusses the QA/QC procedures in more detail. No issues based on the QA/QC measures were found in the GC/MS data set. The acquired data are considered usable.

3.2.2 Field QA/QC Samples

Field QA/QC samples included collection of nine field duplicates using the passive diffusion samplers. The relative percent difference (RPD) of a sample is a measure of precision of the analytical method. The RPD is calculated by comparing laboratory analytical results between original and duplicate samples. An RPD of 30% or less for air is generally considered an acceptable limit for correlation between original and duplicate sample results; however, it should be noted that comparison of low contaminant concentrations (less than three times the RL) often results in RPDs greater than 30%. For sample results reported between the RL and three times the RL the absolute difference between the results should be less than the actual RL.

Due to a laboratory accident during the sample preparation step, the sorbent in the field duplicate sample for L22/C3_Ph2 was lost and could not be analyzed; RPD results are not available for this

location. Sample results and corresponding RPD values for the remaining eight field duplicate samples are shown in **Table 3-5**. Exceedences of the 30% RPD limit are discussed below.

- RPD exceedances are noted for ACE and HP (59% and 35%, respectively, in OA06_PH3). Sample concentrations were greater than three times the RL (0.78 µg/m^3 and 0.36 µg/m^3, respectively), the absolute differences (0.32 µg/m^3 and 0.23 µg/m^3, respectively) between the original and duplicate values are greater than the RL (0.26 µg/m^3 and 0.12 µg/m^3, respectively), and the concentrations for ACE and HP in the associated lab blank were non-detect (less than 0.13 µg/m^3 and 0.12 µg/m^3, respectively). ACE and HP results in OA06_PH3 are therefore considered estimated values and are qualified using "J1".

- RPD exceedances are noted for CFM (34% in L17_PH2) and BEN (59% in L31_PH2). Sample concentrations were greater than three times the RL (0.072 µg/m^3 and 0.9 µg/m^3, respectively), the absolute differences (0.07 µg/m^3 and 0.5 µg/m^3, respectively) between the original and duplicate values are greater than the RL (0.024 µg/m^3 and 0.3 µg/m^3, respectively), and the concentration for CFM and BEN in the associated lab blanks were non-detect (less than 0.023 µg/m^3 and 0.013 µg/m^3, respectively). CFM results in L17_PH2 and BEN results in L31_PH2 are therefore considered estimated values and are qualified using "J1".

- RPD exceedances are noted for CT (73% in OA06_PH3 and 43% in OA16_PH2). In OA06_PH3, the original sample concentration was greater than three times the RL (0.054 µg/m^3) although the duplicate sample concentration was less than this value, the absolute difference (0.039 µg/m^3) between the original and duplicate values is greater than the RL (0.018 µg/m^3), and the concentration for CT in the associated lab blank was non-detect (less than 0.018 µg/m^3). CT results in OA06_PH3 are therefore considered estimated values and are qualified using "J1". Sample concentrations in OA16_PH2 were less than three times the RL (0.072 µg/m^3), the absolute difference (0.023 µg/m^3) between the original and duplicate values is less than the RL (0.024 µg/m^3), and the concentrations for CT in the associated lab blanks were non-detect (less than 0.019 µg/m^3). The elevated RPD is therefore attributed to low concentrations and no qualification of CT in OA16_PH2 is warranted.

- Two RPD exceedances are noted for 12DCA (42% in L47/C4_PH2 and 48% in OA06_PH3). Sample concentrations were greater than three times the RL (0.51 µg/m^3 and 0.036 µg/m^3, respectively), the absolute differences (1.4 µg/m^3 and 0.025 µg/m^3, respectively) between the original and duplicate values are greater than the RL (0.017 µg/m^3 and 0.012 µg/m^3, respectively), and the concentrations for 12DCA in the associated lab blanks were non-detect (less than 0.0099 µg/m^3 and 0.012 µg/m^3, respectively). 12DCA results in L47/C4_PH2 and OA06_PH3 are therefore considered estimated values and are qualified using "J1".

- Two RPD exceedances are noted for HEX (50% in OA16_PH2 and 98% in DC4-NUR_PH2). Sample concentrations were greater than three times the RL (0.84 µg/m^3 and 0.57 µg/m^3, respectively), the absolute differences (1.2 µg/m^3 and 2.3 µg/m^3, respectively) between the original and duplicate values are greater than the RL (0.28 µg/m^3 and 0.19 µg/m^3, respectively), and the concentrations for HEX in the associated lab blanks were non-detect (less than 0.12 µg/m^3). HEX results in OA16_PH2 and DC4-NUR_PH2 are therefore considered estimated values and are qualified using "J1".

- RPD exceedances are noted for MEK (71% in L47/C4_PH2 and 53% in DC4-NUR_PH2). Sample concentrations were greater than three times the RL (2.85 µg/m^3 [for both]), the absolute

differences (11 μg/m^3 and 2.6 μg/m^3, respectively) between the original and duplicate values are greater than the RL (0.95 μg/m^3 [for both]), and the concentrations for MEK in the associated lab blanks were non-detect (less than 0.55 μg/m^3 and 0.60 μg/m^3, respectively). MEK results in L47/C4_PH2 and DC4-NUR_PH2 are therefore considered estimated values and are qualified using "J1". A third RPD exceedance is noted for MEK (56% in OA04_PH2). Sample concentrations were less than three times the RL (0.99 μg/m^3), the absolute difference (0.28 μg/m^3) between the original and duplicate values is less than the RL (0.33 μg/m^3), and the concentrations for MEK in the associated lab blanks were non-detect (less than 0.82 μg/m^3). The elevated RPD is therefore attributed to low concentrations and no qualification of MEK in OA04_PH2 is warranted.

- One RPD exceedance is noted for TCE (72% in OA06_PH3). The original sample concentration was greater than three times the RL (0.045 μg/m^3) although the duplicate sample concentration was less than this value, the absolute difference (0.035 μg/m^3) between the original and duplicate values is greater than the RL (0.015 μg/m^3), and the concentration for TCE in the associated lab blank was non-detect (less than 0.015 μg/m^3). TCE results in OA06_PH3 are therefore considered estimated values and are qualified using "J1".

- RPD exceedances are noted for CFM and EBN (39% and 31% in OA06_PH3). Sample concentrations were less than three times the RL (0.045 μg/m^3 and 0.084 μg/m^3, respectively), the absolute differences (0.011 μg/m^3 and 0.13 μg/m^3, respectively) between the original and duplicate values are less than the RL (0.015 μg/m^3 and 0.028 μg/m^3, respectively), and the concentrations for CFM and EBN in the associated lab blank was non-detect (less than 0.015 μg/m^3 and 0.014 μg/m^3, respectively). The elevated RPDs are therefore attributed to low concentrations and no qualification of CFM or EBN in OA06_PH3 is warranted.

- Two RPD exceedances are noted for 111TCA (38% in DC4-NUR_PH2 and 48% in OA06_PH3). Sample concentrations were less than three times the RL (0.087 μg/m^3 and 0.48 μg/m^3, respectively), the absolute differences (0.017 μg/m^3 and 0.014 μg/m^3, respectively) between the original and duplicate values are less than the RL (0.029 μg/m^3 and 0.016 μg/m^3, respectively), and the concentrations for 111TCA in the associated lab blanks were non-detect (less than 0.018 μg/m^3 and 0.016 μg/m^3, respectively). The elevated RPDs are therefore attributed to low concentrations and no qualification of 111TCA in DC4-NUR_PH2 or OA06_PH3 is warranted.

3.2.3 Laboratory QA/QC Samples

Laboratory QA/QC samples included analysis of one surrogate for each passive diffusion sample and three surrogates for each stainless steel canister sample. In addition, for TO-17 analysis, the embedded blank correction chamber sorbents in the Ultra III samplers were analyzed in conjunction with the corresponding thermally extracted samples to certify the absence of cross-contamination from pre- and post-sampling exposure of the sampler. Detections in the blank samples were used to correct reported concentrations where appropriate. Lab blanks, CCV, and laboratory control spike/laboratory control spike duplicate (LCS/LCSD) samples were also analyzed by the laboratory. All samples (including QA/QC samples) were analyzed within the required holding time of 21 days for passive samplers and 30 days for stainless steel canisters.

The surrogate recoveries for 4-bromofluorobenzene (4-BFB) for L20_PH2 and OA05_PH3 were qualified ("Q") by the laboratory because the percent recoveries (144% and 136%, respectively)

exceeded the method control limits (70-130%). Of the sample analytes, only XYLMP and XYLO are associated with the 4-BFB surrogate. The percent recoveries for the 4-BFB surrogates in the associated lab blanks, CCV, and LCS/LCSD samples were all within the method control limits. The surrogate recoveries for the associated sample blanks were within method control limits; however, XYLMP and XYLO were detected in both samples as well as in both associated sample blanks. XYLMP and XYLO results in L20_PH2 and OA05_PH3 may be biased high and have been qualified "J+"; however, due to the low concentrations of XYLMP and XYLO (6.2 $\mu g/m^3$ total xylenes in L20_PH2 and 2.34 $\mu g/m^3$ in OA05_PH3 vs. the KDHE Tier 2 cleanup goal of 104.0 $\mu g/m^3$ for total xylenes), the reported data are still considered fully usable.

Qualifiers used by laboratory and/or CDM:

- C = Estimated concentration due to calculated sampling rate

  This qualifier was applied to VC and 11DCA in outdoor air passive diffusion samples. These compounds were non-detect in the outdoor air samples; therefore, no further qualification of the data is warranted.

- E = Exceeds instrument calibration range

  This qualifier was applied to several compounds in several samples; however, no further qualification of the data based on these exceedences is warranted.

- J = Estimated value due to bias in the CCV
- J+ = Estimated value due to high surrogate recovery bias
- UJ = Non-detected compound associated with low bias in the CCV and/or LCS
- Q = Exceeds quality control limits

The following data issues were noted during the review:

- CM in the CCVs in data packets 1202073 and 1202139 was qualified ("Q") by the laboratory because the percent recoveries (68% and 64%, respectively) were below the method control limits (70-130%). The laboratory qualified CM in the lab blanks as "UJ". The percent recoveries for CM in the associated LCS samples were within the method control limits. Detected concentrations of CM in associated samples have been qualified "J".

- MEK in the CCV in data packet 1203345 was qualified ("Q") by the laboratory because the percent recovery (139%) exceeded the method control limits (70-130%). The percent recovery for MEK in the associated LCS/LCSD samples also exceeded the method control limits (154% and 142%, respectively). Detected concentrations of MEK in associated samples have been qualified "J".

- Bromomethane (BM) in the CCV in data packet 1202073 was qualified ("Q") by the laboratory because the percent recovery (140%) exceeded the method control limits (70-130%). The percent recovery for BM in the associated LCS also exceeded the method control limits; however, BM was not detected in any of the associated samples. Qualification of data based on CCV or LCS recovery is therefore not warranted.

- MECL and tetrahydrofuran (THF) in the CCV in data packet 1202139 and MECL in data packet 1203300 were qualified ("Q") by the laboratory because the percent recoveries (68%, 69%, and

56%, respectively) were below the method control limits (70-130%). The laboratory qualified MECL and THF in the lab blanks and samples as "UJ". For packet 1202139, the percent recoveries for MECL and THF in the associated LCS sample were within the method control limits. For packet 1203300, MECL percent recovery was also below the method control limits in both the LCS and LCSD (65% and 50%, respectively). MECL and THF were not detected in any of the associated samples; therefore, qualification of data based on CCV or LCS recovery is not warranted.

- 1,2,4-Trichlorobenzene (124TCB) in the LCS (145%) and hexachlorobutadiene in both the LCS (141%) and LCSD (131%) in data packet 1202139 were qualified ("Q") by the laboratory because the percent recoveries exceeded the method control limits (70-130%); however, these compounds were not detected in any of the associated samples. Qualification of data based on LCS/LCSD recovery is therefore not warranted.

- MTBE in the LCS and LCSD in data packet 1203345 was qualified ("Q") by the laboratory because the percent recoveries (161% and 160%, respectively) exceeded the method control limits (70-130%); however, MTBE was not detected in any of the associated samples. Qualification of data based on LCS/LCSD recovery is therefore not warranted.

- CT in the LCSD in data packet 1203345 was qualified ("Q") by the laboratory because the percent recovery (66%) was below the method control limits (70-130%). TCE in the LCSD in data packet 1203345 was qualified ("Q") by the laboratory because the percent recovery (132%) exceeded the method control limits (70-130%). VC in the 23CC LCSD in data packet 1202124 and in the 17BB LCSD in data packet 1202197 were qualified ("Q") by the laboratory because the percent recoveries (133% [in both]) exceeded the method control limits (70-130%). VC was detected in only one associated sample (L36_PH2 in data packet 1202124); CT and/or TCE were detected in several associated samples. None of the detected concentrations, however, have been qualified based on the LCSD recoveries because the percent recoveries for CT, TCE, and VC in the associated LCS samples were within the method control limits.

- CT in both the LCS and LCSD in data packet 1203300 was qualified ("Q") by the laboratory because the percent recoveries (69% [in both]) were below the method control limits (70-130%). CT was not detected in the associated samples; therefore, qualification of data based on LCS recovery is not warranted.

- VC in the 21A CCV, 22AA LCSD, and 22BB LCSD in data packet 1202261 were qualified ("Q") by the laboratory because the percent recoveries (134%, 132%, and 131%, respectively) exceeded the method control limits (70-130%). VC was not detected in any of the associated samples and the percent recoveries for VC in the associated LCS samples were within the method control limits. Qualification of data based on CCV and LCSD recoveries is therefore not warranted.

Canister samples were collected during Phase 2 for co-located comparability with the passive samplers and in Phase 3 for verification of the Phase 2 passive sampler results. RLs for all passive sampler compounds were below the KDHE Tier 2 goals. RLs for some non-detect compounds in the 6-liter stainless steel canister samples exceeded the KDHE Tier 2 goals due to dilution. The non-detect compounds in the 6-liter canisters with RLs above the Tier 2 goals include the following:

- CFM – Samples 01A through 04A in data packet 1202073;

- 1,3-Butadiene, CFM, and TCE – Sample 01A in data packet 1203300;

- 12DCA – Samples 01A, 02A, and 03A in data packet 1202073; sample 01A in data packet 1203300; and
- Bromodichloromethane (BDCM); 1,1,2-trichloroethane (112TCA); 1,2-dibromoethane (ethylene dibromide) (EDB); 1,1,2,2-tetrachloroethane (1122PCA), alpha-chlorotoluene, and 124TCB – all samples in data packets 1202073, 1202139, 1203248, 1203249A, 1203300, 1203325, and 1203364 including lab blanks.

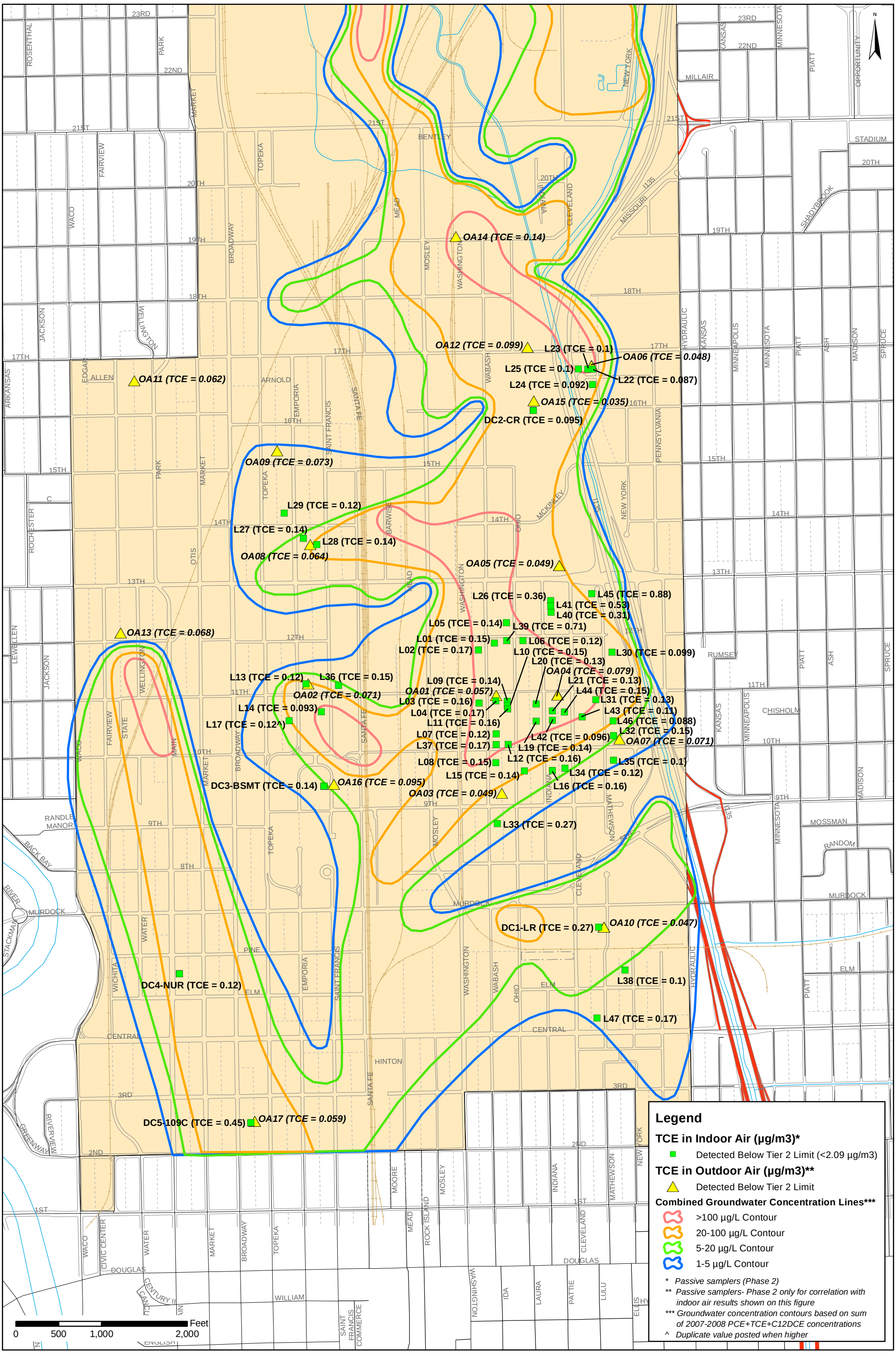
As mentioned in Section 2.1.2.1, CDM collected one 1-liter stainless steel canister grab sample from an emission chamber to test for off-gassing from products placed within the emission chamber. RLs for several non-detect compounds in this sample exceeded the KDHE Tier 2 goals due to dilution. These compounds include the following:

- 1,2-Dichloropropane in the emission chamber sample;
- 13BD; BM; 12DCA; TCE; BDCM; 112TCA; EDB; 1122PCA;14DCB; alpha-chlorotoluene; and 124TCB in both the emission chamber sample and the lab blank; and
- CFM in the lab blank.

Qualification of data based on these exceedences is not warranted.

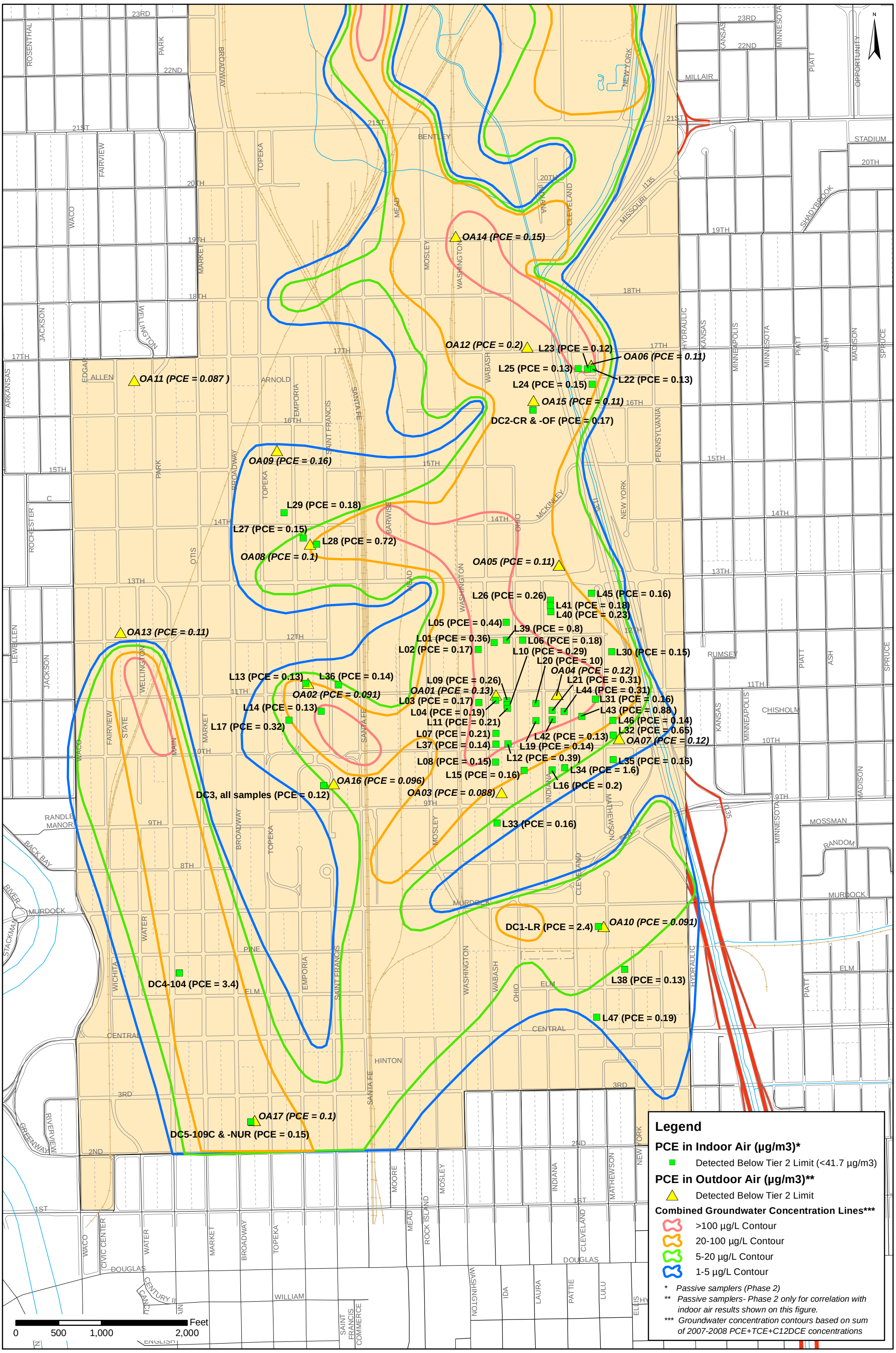
3.2.4 Data Usability

A review of the remaining laboratory data indicates the data are useable with no further qualifications beyond those provided by the analytical laboratory in the data reports.



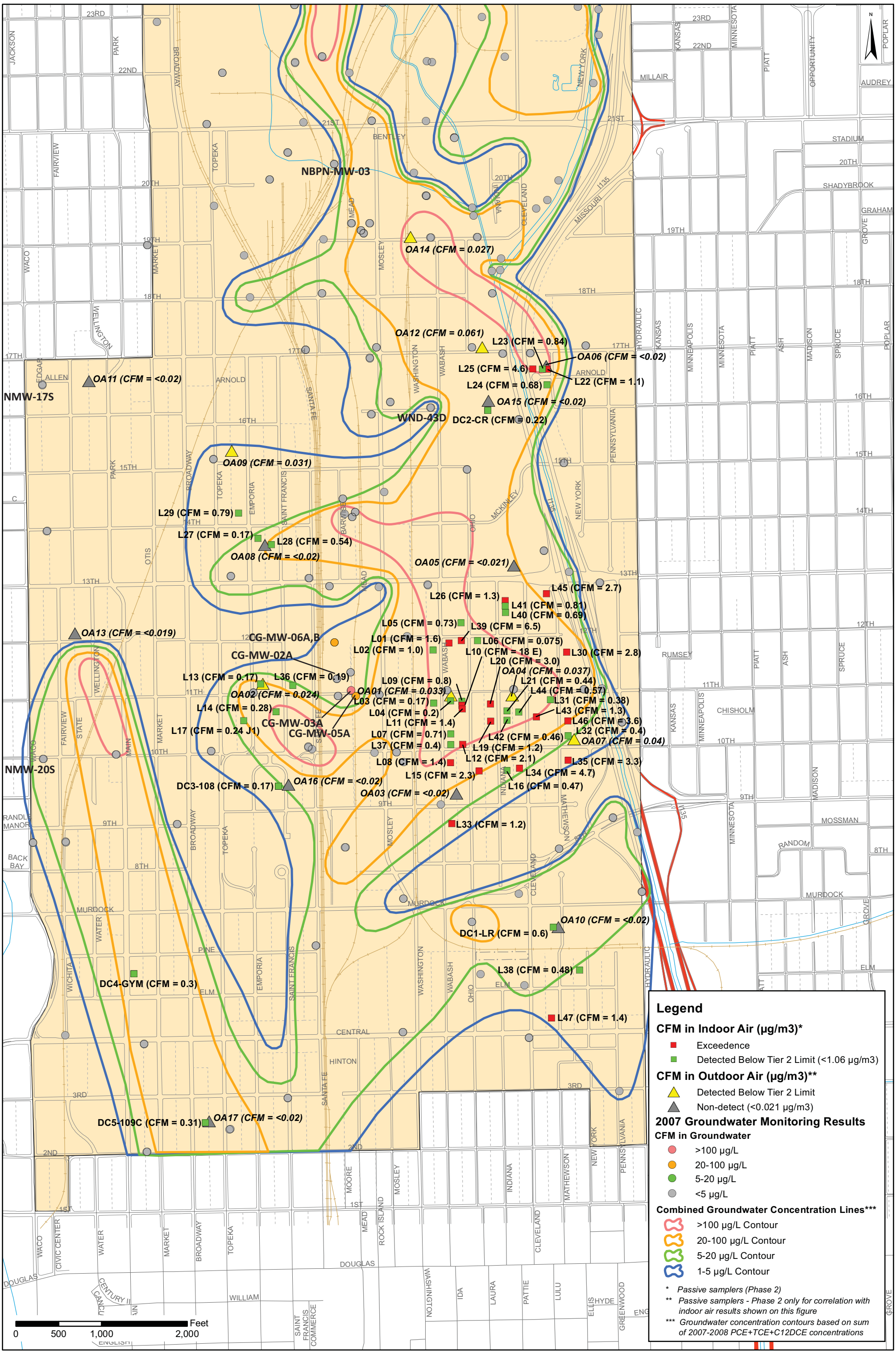
CDM Smith

Figure 3-1
North Industrial Corridor (NIC) Site
TCE in Air Samples



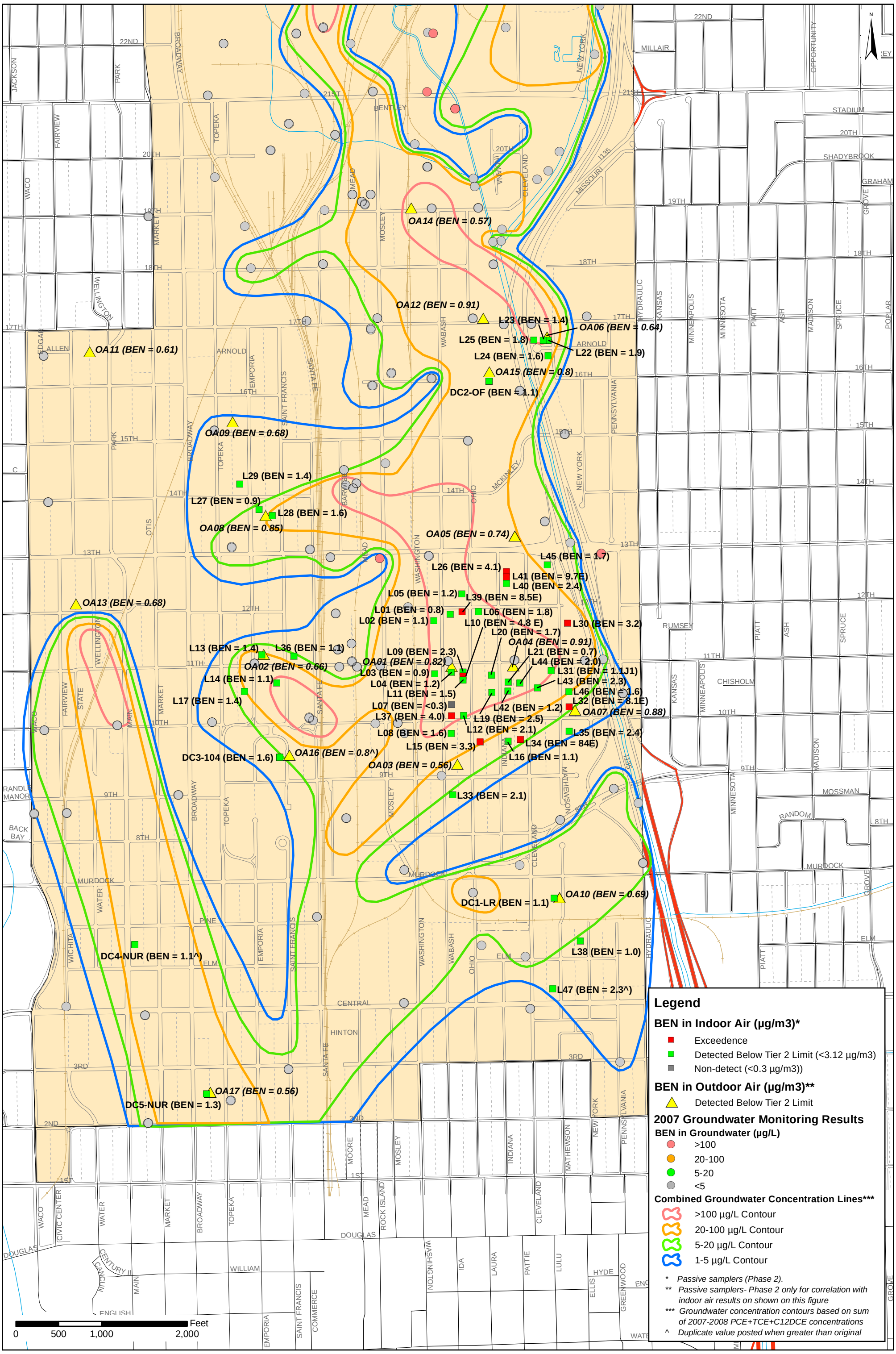
CDM Smith

Figure 3-2
North Industrial Corridor (NIC) Site
PCE in Air Samples



CDM Smith

Figure 3-3
North Industrial Corridor (NIC) Site
CFM in Air Samples



CDM Smith

Figure 3-4
North Industrial Corridor (NIC) Site
BEN in Air Samples

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC1-LR_Ph2	1920	Crawlspace						717 N. Mathewson Ave.					Living room of in-home daycare
	0.27	2.4	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1	0.093	0.6	12DCA	0.28	
											ACE	100 S	
											CHEX	1.8	
											EBN	1.1	
											HEX	3.8	
											HP	1.4	
											MEK	6.3	
											TOL	8.9 E	
											XYLMP	4.1	
											XYLO	1.6	
DC2-CR_Ph2		Slab						1329 E 16th St N.					Club room. Note written in sharpie found near sampler.
	0.095	0.17	<0.018	<0.0076	<0.029	<0.015	<0.021	0.9	0.051	0.22	12DCA	0.064	
											ACE	8 E	
											CHEX	0.88	
											EBN	0.75	
											HEX	1.9	
											HP	1.1	
											MEK	7.6	
											TOL	5	
											XYLMP	2.6	
											XYLO	1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC2-LNG_Ph2		Slab						1329 E 16th St N.					Lounge. Note written in sharpie found near sampler.
	0.084	0.3	<0.018	<0.0076	<0.029	<0.015	<0.021	0.9	0.03	0.075	12DCA	0.05	
											ACE	5 E	
											CHEX	0.88	
											EBN	0.8	
											HEX	1.8	
											HP	1.1	
											MEK	5.5	
											TOL	4.8	
											XYLMP	2.8	
											XYLO	1.2	
DC2-OF_Ph2		Slab						1329 E 16th St N.					By internal window b/w office and gym
	0.09	0.17	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1	0.069	0.16	12DCA	0.063	
											ACE	5.2 E	
											CHEX	1.1	
											EBN	0.88	
											HEX	3.2	
											HP	1.2	
											MEK	2.6	
											TOL	6.2	
											XYLMP	2.6	
											XYLO	1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC3-104_Ph2		Basement; OUTDOOR AIR						1035 N St Francis Ave.					Rm 104
	0.12	0.12	<0.018	<0.0076	<0.029	<0.015	<0.021	1.6	<0.03	0.13	12DCA	0.066	
											ACE	9.7 E	
											CHEX	1	
											EBN	0.89	
											HEX	2.4	
											HP	1	
											MEK	3.7	
											TOL	9 E	
											XYLMP	2.8	
											XYLO	1.3	
DC3-108_Ph2		Basement; OUTDOOR AIR						1035 N St Francis Ave.					Rm 108
	0.12	0.12	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1	<0.03	0.17	12DCA	0.057	
											ACE	5.2 E	
											CHEX	0.83	
											EBN	0.77	
											HEX	2.1	
											HP	0.88	
											MEK	4	
											TOL	7.9	
											XYLMP	2.5	
											XYLO	1.1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC3-113_Ph2		Basement; OUTDOOR AIR						1035 N St Francis Ave.					Rm 113
	0.13	0.12	<0.018	<0.0076	<0.029	<0.015	<0.021	1	0.04	0.12	12DCA	0.077	
											ACE	4.6 E	
											CHEX	0.94	
											EBN	0.81	
											HEX	5.7	
											HP	0.98	
											MEK	2.3	
											TOL	8.8 E	
											XYLMP	2.6	
											XYLO	1	
DC3-BSMT_Ph2		Basement; OUTDOOR AIR						1035 N St Francis Ave.					Basement playroom (only used during inclement weather)
	0.14	0.12	<0.018	<0.0076	<0.029	<0.015	<0.021	1.4	0.038	0.12	12DCA	0.078	
											ACE	5.7 E	
											CHEX	0.98	
											EBN	0.87	
											HEX	4.2	
											HP	1	
											MEK	2.5	
											TOL	9.3 E	
											XYLMP	2.7	
											XYLO	1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC4-104_Ph2		Basement but only used as a tornado shelter						610 N. Main St					Clipped to blinds in PC lab
	0.11	3.4	<0.018	<0.0076	0.044	<0.015	<0.021	0.3	0.04	0.25	12DCA	0.068	
											ACE	34 E	
											CHEX	0.98	
											EBN	0.92	
											HEX	1.2	
											HP	3.1	
											MEK	5.4	
											MTBE	0.4	
											TOL	4.6	
											XYLMP	2.9	
											XYLO	1	
DC4-GYM_Ph2		Basement but only used as a tornado shelter						610 N. Main St					Gym
	0.1	2.3	<0.018	<0.0076	0.033	<0.015	<0.021	0.8	0.032	0.3	12DCA	0.062	
											ACE	50 E	
											CHEX	0.86	
											EBN	0.92	
											HEX	1	
											HP	2.9	
											MEK	5.5	
											MTBE	0.7	
											TOL	4.2	
											XYLMP	3	
											XYLO	0.94	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					Notes
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC4-NUR_Ph2		Basement but only used as a tornado shelter						610 N. Main St					Nursery
	0.12	1	<0.018	<0.0076	0.053	<0.015	<0.021	1	0.039	0.16	12DCA	0.085	
											ACE	66 E	
											CHEX	1.1	
											EBN	0.78	
											HEX	3.5 J1	
											HP	3.5	
											MEK	3.6 J1	
											TOL	5.3	
											XYLMP	2.5	
											XYLO	0.93	
DC5-109C/C5_Ph2		Basement						330 N. Broadway					Children's church school (Rm 109C) room in basement (Level 1)
	0.45	0.15	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1	0.031	0.31	12DCA	0.29	
											ACE	5 E	
											CHEX	0.55	
											EBN	0.73	
											HEX	1.2	
											HP	1.1	
											MEK	7.2	
											TOL	6.6	
											XYLMP	2.6	
											XYLO	1.3	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC5-NUR_Ph2		Basement						330 N. Broadway					Nursery (Rm 203C) on Level 2
	0.42	0.15	<0.018	<0.0076	<0.029	<0.015	<0.021	1.3	0.032	0.19	12DCA	0.099	
											ACE	4.1 E	
											CHEX	0.66	
											EBN	0.66	
											HEX	3.8	
											HP	1.9	
											MEK	5.2	
											TOL	7.3	
											XYLMP	2.6	
											XYLO	1	
L01_Ph2	1950	4-plex w/ crawlspace						1105 E. 12th St N. - Apt 100					
	0.15	0.36	<0.018	<0.0076	<0.029	<0.015	<0.021	0.8	0.033	1.6	12DCA	0.16	
											ACE	48 E	
											CHEX	0.96	
											EBN	0.8	
											HEX	1.8	
											HP	1.4	
											MEK	11 E	
											TOL	12 E	
											XYLMP	3.1	
											XYLO	1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L02_Ph2	1925	Crawlspace						1247 N. Wabash Ave.					Doesn't speak English. Assumed no smoking b/c no odor.
	0.17	0.17	<0.018	<0.0076	0.34	<0.015	<0.021	1.1	0.076	1	12DCA	0.19	
											ACE	9.4 E	
											CHEX	0.82	
											EBN	0.79	
											HEX	1.6	
											HP	1.1	
											MEK	9.5	
											TOL	8.4 E	
											XYLMP	3.1	
											XYLO	1.2	
L03_Ph2	1930	Crawlspace						1155 N. Wabash Ave.					Drycleaning ~1x mo; auto cleaners on 2nd floor; silverware polish in kitchen
	0.16	0.17	<0.018	<0.0076	<0.029	<0.015	<0.021	0.9	0.06	0.17	12DCA	0.054	
											ACE	4.8 E	
											CHEX	1	
											EBN	0.75	
											HEX	2.2	
											HP	1.1	
											MEK	12 E	
											TOL	13 E	
											XYLMP	2.9	
											XYLO	1.2	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L04_Ph2	1900	Basement (full) but not in use?						1152 N. Wabash Ave.					
	0.17	0.19	<0.016	<0.0068	<0.026	<0.014	<0.019	1.2	0.041	0.2	12DCA	0.12	
											ACE	7 E	
											CHEX	1.4	
											EBN	1.1	
											HEX	2	
											HP	1.9	
											MEK	3.8	
											TOL	7.4	
											XYLMP	4	
											XYLO	1.8	
L05_Ph2	1910	Basement (partial) but not in use						1311 N. Ohio Ave.					
	0.14	0.44	<0.018	<0.0076	0.03	<0.015	<0.021	1.2	0.11	0.73	12DCA	0.63	
											ACE	6.4 E	
											CHEX	1.6	
											EBN	4	
											HEX	2.1	
											HP	7.7	
											MEK	24 E	
											TOL	46 E	
											XYLMP	14 E	
											XYLO	3.2	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L06_Ph2	1950	Crawlspace						1201 E. 12th St N.					Drycleaning ~1x mo; diesel-turpentine mix but will move outside; home beauty products business?
	0.12	0.18	<0.018	<0.0076	<0.029	<0.015	<0.021	1.8	0.044	0.075	12DCA	0.058	
											ACE	3.4	
											CHEX	1.5	
											EBN	1.7	
											HEX	2.5	
											HP	1.3	
											MEK	3.8	
											TOL	52 E	
											XYLMP	6.6	
											XYLO	2.5	
L07_Ph2	1927	Crawlspace						1114 N. Wabash Ave.					
	0.12	0.21	<0.018	<0.0076	<0.029	<0.015	<0.021	<0.3	0.05	0.71	12DCA	0.2	
											ACE	9.1 E	
											CHEX	0.79	
											EBN	0.66	
											HEX	1.4	
											HP	1.1	
											MEK	27 E	
											TOL	5.1	
											XYLMP	1.8	
											XYLO	0.83	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L08_Ph2	1910	Basement (full) - in use						1040 N. Wabash Ave.					Son smokes in basement. Main floor did not smell like smoke so sampler set in dining room.
	0.15	0.15	<0.018	<0.0076	0.031	<0.015	<0.021	1.6	0.078	1.4	12DCA	0.16	
											ACE	5.9 E	
											CHEX	0.96	
											EBN	0.74	
											HEX	2.9	
											HP	1.7	
											MEK	14 E	
											TOL	8.5 E	
											XYLMP	2.7	
											XYLO	1	
L09_Ph2	1995	Crawlspace						1151 N. Ohio Ave.					
	0.14	0.26	<0.018	<0.0076	0.029	<0.015	<0.021	2.3	0.079	0.8	12DCA	0.85	
											ACE	5 E	
											CHEX	2.7	
											EBN	2.3	
											HEX	5.1	
											HP	2.2	
											MEK	14 E	
											TOL	21 E	
											XYLMP	9.8	
											XYLO	3.4	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L10_Ph2	1996	Crawlspace						1147 N. Ohio Ave.					Drycleaning ~1x mo
	0.15	0.29	<0.018	<0.0076	0.03	<0.015	<0.021	4.8 E	0.18	18 E	12DCA	2.2	
											ACE	6 E	
											CHEX	4.6	
											EBN	5.9	
											HEX	7.2 E	
											HP	4	
											MEK	7.6	
											TOL	46 E	
											XYLMP	26 E	
											XYLO	8.6	
L11_Ph2	1996	Slab (city files say crawlspace)						1145 N. Ohio Ave.					
	0.16	0.21	<0.018	<0.0076	0.05	<0.015	0.027	1.5	0.11	1.4	12DCA	0.4	
											ACE	11 E	
											CHEX	2.6	
											EBN	2.6	
											HEX	3.3	
											HP	4.2	
											MEK	13 E	
											TOL	35 E	
											XYLMP	9.7	
											XYLO	4	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L12_Ph2	1920	Basement (partial) but only used for storage						1103 N. Ohio Ave.					
	0.16	0.39	<0.018	<0.0076	<0.029	<0.016	<0.021	2.1	<0.03	2.1	12DCA	0.19	
											ACE	5.1 E	
											CHEX	1.6	
											EBN	2.4	
											HEX	3.1	
											HP	1.9	
											MEK	8.7	
											TOL	18 E	
											XYLMP	9.9	
											XYLO	4.1	
L13/C1_Ph2	1920	Basement (full) but not in use						1208 N. Emporia Ave.					
	0.12	0.13	<0.018	<0.0076	0.17	<0.015	<0.021	1.4	0.034	0.17	12DCA	0.065	
											ACE	3.8 E	
											CHEX	1.4	
											EBN	0.67	
											HEX	2.6	
											HP	1.2	
											MEK	3.7	
											TOL	4.6	
											XYLMP	2.6	
											XYLO	0.96	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L14_Ph2	1920	Basement (full) - in use						1141 N. St Francis Ave.					Mother said no smoking in house but smell of residual smoke is present
	0.093	0.13	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1	<0.03	0.28	12DCA	0.041	
											ACE	2.4	
											CHEX	1	
											EBN	0.74	
											HEX	1.9	
											HP	0.96	
											MEK	2.3	
											TOL	5.4	
											XYLMP	2.7	
											XYLO	1	
L15_Ph2	1900	Crawlspace						1032 N. Ohio Ave.					
	0.14	0.16	<0.018	<0.0075	0.038	<0.015	<0.021	3.3	0.17	2.3	12DCA	1.1	
											ACE	5.8 E	
											CHEX	1.7	
											EBN	12 E	
											HEX	2.4	
											HP	1.9	
											MEK	13 E	
											TOL	15 E	
											XYLMP	40 E	
											XYLO	9	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address				
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)	Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**		
L16_Ph2	1949	Crawlspace						1040 N. Indiana Ave.				
	0.16	0.2	<0.018	<0.0074	0.1	<0.015	<0.02	1.1	0.048	0.47	12DCA 0.21	
											ACE 4.6 E	
											CHEX 1.1	
											EBN 1	
											HEX 1.8	
											HP 1	
											MEK 4.2	
											TOL 12 E	
											XYLMP 3.8	
											XYLO 1.6	
L17_Ph2	1905	Basement (full) but not in use						1135 N. Emporia Ave.				
	0.1	0.32	<0.018	<0.0076	0.098	<0.015	<0.021	1.4	0.049	0.24 J1	12DCA 0.066	
											ACE 4.1 E	
											CHEX 1.6	
											EBN 0.71	
											HEX 2.8	
											HP 3	
											MEK 8.5	
											TOL 8.4 E	
											XYLMP 2.5	
											XYLO 1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L19_Ph2	1920	Crawlspace						1139 N. Indiana Ave.					
	0.14	0.14	<0.018	<0.0076	<0.029	<0.015	<0.021	2.5	0.12	1.2	12DCA	0.17	
											ACE	1.9	
											CHEX	1.2	
											EBN	0.65	
											HEX	2.3	
											HP	1.1	
											MEK	1	
											TOL	5.4	
											XYLMP	2.2	
											XYLO	0.93	
L20_Ph2	1920	Crawlspace						1151 N. Indiana Ave.					Smoking outside home
	0.13	10	<0.018	<0.0076	0.032	<0.015	<0.021	1.7	0.19	3	12DCA	0.19	
											ACE	16 E	
											CHEX	1.3	
											EBN	1.3	
											HEX	2.5	
											HP	2.5	
											MECL	3.4	
											MEK	13 E	
											TOL	22 E	
											XYLMP	4.6 J+	
											XYLO	1.6 J+	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L21/C2_Ph2	1930	Crawlspace						1148 N. Indiana Ave.					Paint cans (sealed) in kitchen. Sampled in living room.
	0.13	0.31	<0.018	<0.0075	2.3	<0.015	0.023	0.7	0.28	0.44	12DCA	0.21	
											ACE	2.8	
											CHEX	1.6	
											EBN	0.67	
											HEX	2.7	
											HP	1.3	
											MEK	7.2	
											TOL	4.6	
											XYLMP	2.2	
											XYLO	0.94	
L22/C3_Ph2	1955	Crawlspace						1420 E. Arnold St					Drycleaning occas. used. Sampled in living room.
	0.087	0.13	<0.018	<0.0075	0.031	<0.015	<0.021	1.9	0.12	1.1	12DCA	0.93	
											ACE	6.7 E	
											CHEX	1.4	
											EBN	1.2	
											HEX	2.4	
											HP	2	
											MEK	18 E	
											TOL	7	
											XYLMP	4.1	
											XYLO	1.4	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L23_Ph2	1955	Crawlspace						1414 E. Arnold St					Obtained access via City. Tenant not home to answer questions.
	0.1	0.12	<0.018	<0.0075	0.031	<0.015	<0.021	1.4	0.11	0.84	12DCA	0.12	
											ACE	7.8 E	
											CHEX	1.5	
											EBN	1	
											HEX	2.6	
											HP	1.9	
											MEK	8.3	
											TOL	6.9	
											XYLMP	3.4	
											XYLO	1.2	
L24_Ph2	1955	Crawlspace						1415 E. Arnold St					
	0.092	0.15	<0.018	<0.0075	0.032	<0.015	<0.021	1.6	0.11	0.68	12DCA	0.18	
											ACE	8.4 E	
											CHEX	1.5	
											EBN	0.93	
											HEX	2.8	
											HP	1.9	
											MEK	13 E	
											TOL	6	
											XYLMP	3.4	
											XYLO	1.4	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L25_Ph2	1955	Crawlspace						1402 E. Arnold St					Candles on shelf
	0.1	0.13	<0.018	<0.0076	0.034	<0.015	<0.021	1.8	0.11	4.6	12DCA	0.51	
											ACE	9 E	
											CHEX	1.4	
											EBN	1	
											HEX	2.6	
											HP	1.7	
											MEK	9	
											TOL	8.9 E	
											XYLMP	3.9	
											XYLO	1.4	
L26_Ph2	2007	Basement (full) - in use						1326 N. Indiana Ave.					
	0.36	0.26	<0.018	<0.0075	<0.029	<0.015	<0.021	4.1	0.099	1.3	12DCA	0.7	
											ACE	7.4 E	
											CHEX	4.9	
											EBN	3.6	
											HEX	11 E	
											HP	3.7	
											MEK	5.2	
											TOL	35	
											XYLMP	16 E	
											XYLO	5.1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L27_Ph2	1910	Crawlspace						1438 N. Emporia Ave.					
	0.14	0.15	<0.018	<0.0076	<0.029	<0.015	<0.021	0.9	0.047	0.17	12DCA	0.11	
											ACE	1.6	
											CHEX	1.2	
											EBN	0.82	
											HEX	2.1	
											HP	1.2	
											MEK	8.2	
											TOL	5.5	
											XYLMP	3	
											XYLO	1.1	
L28_Ph2	1920	Crawlspace						1441 N. St Francis Ave.					Carpet in living room being torn out when picked up sampler
	0.14	0.72	<0.018	<0.0076	0.05	<0.015	<0.021	1.6	0.25	0.54	12DCA	0.083	
											ACE	6.8 E	
											CHEX	2.9	
											EBN	1.7	
											HEX	2.7	
											HP	1.8	
											MEK	17 E	
											TOL	9.7 E	
											XYLMP	6.3	
											XYLO	2.4	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L29_Ph2	1920	Crawlspace						1511 N. Emporia Ave.					Smoking outside only
	0.12	0.18	<0.018	<0.0076	0.033	<0.015	<0.021	1.4	0.16	0.79	12DCA	0.061	
											ACE	6.1 E	
											CHEX	1.3	
											EBN	1	
											HEX	2.3	
											HP	1.6	
											MEK	22 E	
											TOL	6.6	
											XYLMP	3.9	
											XYLO	1.5	
L30_Ph2	1945	Crawlspace						1240 N. Mathewson Ave.					Smoking while sampler deployed?
	0.099	0.15	<0.018	<0.0075	0.036	<0.015	<0.021	3.2	0.17	2.8	12DCA	0.72	
											ACE	7.6 E	
											CHEX	1.5	
											EBN	1.2	
											HEX	3.9	
											HP	1.7	
											MEK	5.8	
											TOL	22 E	
											XYLMP	4.2	
											XYLO	1.4	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	2.09	41.7	36.5	5.53	5,210	15.2	209	3.12	4.06	1.06			
L31_Ph2	1920	Crawlspace						1155 N. Mathewson Ave.					
	0.13	0.16	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1 J1	0.062	0.38	12DCA	0.056	
											ACE	3.5	
											CHEX	1.5	
											EBN	0.93	
											HEX	4.6	
											HP	1.3	
											MEK	2.7	
											TOL	6	
											XYLMP	3.5	
											XYLO	1.3	
L32_Ph2	1950	Basement but not in use (city files say crawlspace)						1108 N. Mathewson Ave.					Strong sewer odor outside of house
	0.15	0.65	<0.018	<0.0076	<0.029	<0.015	<0.021	8.1 E	0.036	0.4	12DCA	0.46	
											ACE	5.5 E	
											CHEX	5.5	
											EBN	6	
											HEX	9.4 E	
											HP	4	
											MEK	2.9	
											TOL	45 E	
											XYLMP	24 E	
											XYLO	8.8	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type							Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L33_Ph2	1900	Crawlspace						932 N. Wabash Ave.					Father smokes inside occas. - no odor. Agreed to keep outside during test.
	0.27	0.16	<0.018	<0.0076	0.038	<0.015	<0.021	2.1	0.12	1.2	12DCA	2	
											ACE	4.3 E	
											CHEX	1.4	
											EBN	1.2	
											HEX	2.5	
											HP	1.6	
											MEK	12 E	
											TOL	8.8 E	
											XYLMP	4.6	
											XYLO	1.9	
L34_Ph2	2003	Basement (full) but only used for laundry						1035 N. Cleveland Ave.					Carpet stain remover stored upstairs. Brother "messed with" sampler
	0.12	1.6	<0.073	<0.03	<0.12	<0.062	<0.083	84 E	<0.12	4.7	12DCA	0.51	
											ACE	14	
											CHEX	160 E	
											EBN	97 E	
											HEX	160 E	
											HP	110 E	
											MEK	15	
											TOL	290 S	
											XYLMP	260 S	
											XYLO	130 E	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L35_Ph2	1945	Basement but not in use (city files say crawlspace)						1048 N. Mathewson Ave.					Smelled smoke when picked up sampler
	0.1	0.16	<0.018	<0.0076	0.029	<0.015	<0.021	2.4	0.12	3.3	12DCA	0.2	
											ACE	6.6 E	
											CHEX	1.2	
											EBN	1.1	
											HEX	3.7	
											HP	2.1	
											MEK	7.5	
											TOL	9.4 E	
											XYLMP	4.4	
											XYLO	1.4	
L36_Ph2	1910	Basement but not in use (city files say crawlspace)						1204 N. St Francis Ave.					
	0.15	0.14	<0.018	0.09	<0.029	<0.015	<0.021	1.1	0.052	0.19	12DCA	1.9	
											ACE	69 E	
											CHEX	0.96	
											EBN	0.69	
											HEX	1.7	
											HP	1.2	
											MEK	9.6 E	
											TOL	5.9	
											XYLMP	2.6	
											XYLO	1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L37_Ph2	1950	Slab (city files say crawlspace)						1102 N. Wabash Ave.					
	0.17	0.14	<0.018	<0.0075	0.031	<0.015	<0.021	4	0.16	0.4	12DCA	0.44	
											ACE	4.1 E	
											CHEX	2	
											EBN	1.2	
											HEX	3.5	
											HP	3.8	
											MEK	4.7	
											TOL	9.8 E	
											XYLMP	4.3	
											XYLO	1.5	
L38_Ph2	1920	Crawlspace						611 N. New York Ave.					Strong sewer odor in house
	0.1	0.13	<0.016	<0.0066	0.038	<0.014	<0.018	1	0.13	0.48	12DCA	0.38	
											ACE	2.3	
											CHEX	1.1	
											EBN	0.63	
											HEX	2.3	
											HP	1.3	
											MEK	3.8	
											TOL	5	
											XYLMP	2.5	
											XYLO	0.9	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L39_Ph2	2009	Basement (daylight) - in use						1257 N. Ohio Ave.					Smoking occas. upstairs. Wd2/1-Sentinel811 Multi-surf. Adhesive Primer applied to bsmt floor. Fr2/3-laying tile using Roberts(?) Vinyl Composition Tile Adhesive
	0.71	0.8	<0.018	<0.0076	<0.029	<0.015	<0.021	8.5 E	0.072	6.5	12DCA	0.79	
											ACE	31 E	
											CHEX	3.4	
											EBN	12 E	
											HEX	4.5	
											HP	3.5	
											MEK	33 E	
											TOL	93 E	
											XYLMP	24 E	
											XYLO	7.6	
L40_Ph2	2005	Basement (full) but not in use						1318 N. Indiana Ave.					
	0.31	0.23	<0.018	<0.0075	0.036	<0.015	<0.021	2.4	0.13	0.69	12DCA	0.23	
											ACE	17 E	
											CHEX	2.6	
											EBN	2.7	
											HEX	5.1	
											HP	4.6	
											MEK	12 E	
											TOL	18 E	
											XYLMP	11 E	
											XYLO	4.4	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L41_Ph2	2004	Basement (full) but not in use						1324 N. Indiana Ave.					
	0.53	0.18	<0.018	<0.0075	<0.029	<0.015	<0.021	9.7 E	0.047	0.81	12DCA	0.72	
											ACE	8.7 E	
											CHEX	13 E	
											EBN	9.9 E	
											HEX	17 E	
											HP	12 E	
											MEK	21 E	
											TOL	87 E	
											XYLMP	42 E	
											XYLO	14 E	
L42_Ph2	1930	Crawlspace						1134 N. Indiana Ave.					
	0.096	0.13	<0.011	<0.0048	0.032	<0.0097	<0.013	1.2	0.13	0.46	12DCA	3.7	
											ACE	82 E	
											CHEX	0.96	
											EBN	0.88	
											HEX	2.1	
											HP	1.8	
											MEK	10 E	
											TOL	7.9 E	
											XYLMP	3	
											XYLO	1.2	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L43_Ph2	1920	Crawlspace						1132 N. Cleveland Ave.					Painting possible inside during test
	0.11	0.88	<0.018	<0.0076	0.037	<0.015	<0.021	2.3	0.16	1.3	12DCA	0.16	
											ACE	4.8 E	
											CHEX	1.6	
											EBN	1.1	
											HEX	3.3	
											HP	2.5	
											MEK	14 E	
											TOL	9.3 E	
											XYLMP	3.9	
											XYLO	1.6	
L44_Ph2	1930	Basement but not in use (city files say crawlspace)						1143 N. Cleveland Ave.					
	0.15	0.31	<0.018	<0.0076	0.031	<0.015	<0.021	2	0.085	0.57	12DCA	0.12	
											ACE	8.6 E	
											CHEX	1.5	
											EBN	1.9	
											HEX	2.7	
											HP	1.8	
											MEK	20 E	
											TOL	12 E	
											XYLMP	8.2	
											XYLO	3.2	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address				
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)	Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**		
L45_Ph2	1994	Basement (full) - in use						1347 N. Mathewson Ave.				
	0.88	0.16	<0.018	<0.0076	0.039	<0.015	<0.021	1.7	0.21	2.7	12DCA 0.22	
											ACE 10 E	
											CHEX 2.1	
											EBN 1.9	
											HEX 3.6	
											HP 2.6	
											MEK 13 E	
											TOL 14 E	
											XYLMP 5.1	
											XYLO 1.8	
L46_Ph2	1900	Crawlspace						1126 N. Mathewson Ave.				
	0.088	0.14	<0.018	<0.0076	0.03	<0.015	<0.021	1.6	0.1	3.6	12DCA 0.086	
											ACE 2.9	
											CHEX 0.92	
											EBN 0.8	
											HEX 1.5	
											HP 1.2	
											MEK 5.9	
											TOL 5.3	
											XYLMP 3.2	
											XYLO 1.2	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L47/C4_Ph2	1920	Basement (partial) but not in use						515 N. Mathewson Ave.					Doesn't speak English. Assumed no smoking b/c no odor.
	0.17	0.19	<0.018	<0.0076	0.034	<0.015	<0.021	2	0.12	1.4	12DCA	4 J1	
											ACE	9.4 E	
											CHEX	1.4	
											EBN	1.3	
											HEX	2.8	
											HP	2	
											MEK	21 E, J1	
											TOL	9.8 E	
											XYLMP	5.4	
											XYLO	2.1	

Table 3-1
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Passive Samplers

Location	Year Built	Sublevel Type						Address				
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)	Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**		

Sample L18 - Passive sampler at 1101 N. Cleveland Ave. Destroyed by homeowner; unable to retrieve.

IA = Indoor Air. From Risk-Based Standards for Kansas (RSK) Manual, 5th Edition. October 2010. Kansas Department of Health and Environment, Bureau of Remediation. Modified for TCE per the KDHE's January 3, 2012 comment letter on the work plan. Modified for PCE per KDHE's March 7, 2012 e-mail.

Primary Contaminants of Concern

BEN = Benzene
CT = Carbon Tetrachloride
CFM = Chloroform
C12DCE = cis-1,2-Dichloroethene
11DCA = 1,1-Dichloroethane
11DCE = 1,1-Dichloroethene
PCE = Tetrachloroethene
111TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
VC = Vinyl chloride

Other Detects & IA Standard

ACE = Acetone (32,300 µg/m3)
CHEX = Cyclohexane (NL)
12DCA = 1,2-Dichloroethane (0.936 µg/m3)
EBN = Ethylbenzene (9.73 µg/m3)
HEX = Hexane (730.0 µg/m3)
HP = Heptane (NL)
MECL = Methylene chloride (51.8 µg/m3)
MEK = 2-Butanone (Methyl ethyl ketone) (5,210.0 µg/m3)
MTBE = Methyl tert-Butyl Ether (93.6 µg/m3)
TOL = Toluene (5,210.0 µg/m3)
XYLMP = m,p-Xylene (104.0 µg/m3)
XYLO = o-Xylene (104.0 µg/m3)

Qualifiers

E = Exceeds instrument calibration range.
J1 = Estimated value due to relative percent difference (RPD) exceedence.
J+ = Estimated value due to high surrogate recovery bias.
S = Saturated peak.

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA01_Ph2	0.057	0.13	<0.015	<0.0068 C	<0.021	<0.018 C	<0.018	0.82	0.032	0.033	12DCA	0.024	Tied to trees inside fence on south side of 11th St near 1154 N. Wabash Ave.
											ACE	0.44	
											CHEX	0.56	
											EBN	0.53	
											HEX	1.5	
											HP	0.59	
											TOL	2.9	
											XYLMP	1.8	
											XYLO	0.91	
OA02_Ph2	0.071	0.091	<0.015	<0.0067 C	<0.021	<0.018 C	<0.018	0.66	<0.024	0.024	12DCA	0.022	Tied to tree in back yard at 1208 N. Emporia Ave.
											ACE	0.56	
											CHEX	0.54	
											EBN	0.4	
											HEX	1.3	
											HP	0.58	
											TOL	2.6	
											XYLMP	1.3	
											XYLO	0.65	
OA03_Ph2	0.049	0.088	<0.015	<0.0067 C	<0.021	<0.018 C	<0.018	0.56	<0.024	<0.02	12DCA	0.018	Tied to tree at southeast corner of 1016 N. Wabash Ave. in utility easement (outside fence)
											ACE	0.46	
											CHEX	0.55	
											EBN	0.44	
											HEX	1.5	
											HP	0.6	
											TOL	2.8	
											XYLMP	1.5	
											XYLO	0.78	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA04_Ph2	0.079	0.12	<0.013	<0.0058 C	<0.018	<0.015 C	<0.015	0.91	0.037	0.037	12DCA	0.03	Outside fence post on east side of Dunbar Park, b/w Cleveland & Indiana, just south of 11th St
											ACE	0.56	
											CHEX	0.66	
											EBN	0.67	
											HEX	1.6	
											HP	0.72	
											MEK	0.64	
											TOL	3.9	
											XYLMP	2.2	
											XYLO	0.97	
OA04_Ph3	0.047	0.12	<0.011	<0.0051 C	0.022	<0.014 C	<0.014	0.72	0.027	<0.016	12DCA	0.038	Tied to fence post on east side of Dunbar Park, b/w Cleveland & Indiana, just south of 11th St
											ACE	0.44	
											CHEX	0.35	
											EBN	0.3	
											HEX	2.8	
											HP	0.5	
											TOL	2	
											XYLMP	0.98	
											XYLO	0.49	
OA05_Ph2	0.049	0.11	<0.015	<0.0069 C	<0.021	<0.018 C	<0.018	0.74	0.028	<0.021	12DCA	0.026	South side of Emerson McAdams Park on 13th St, southeast fence post
											ACE	0.6	
											CHEX	0.7	
											EBN	0.54	
											HEX	1.9	
											HP	0.74	
											TOL	3	
											XYLMP	1.8	
											XYLO	0.8	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA05_Ph3	0.065	0.16	<0.011	<0.0051 C	0.028	<0.014 C	<0.014	0.79	0.048	0.027	12DCA	0.046	South side of Emerson McAdams Park on 13th St, southeast fence post
											ACE	0.4	
											CHEX	0.37	
											EBN	0.38	
											HEX	1.5	
											HP	0.52	
											MEK	0.33 J	
											TOL	2.8	
											XYLMP	1.6 J+	
											XYLO	0.74 J+	
OA06_Ph2	0.048	0.11	<0.015	<0.0067 C	<0.021	<0.018 C	<0.018	0.64	0.026	<0.02	12DCA	0.026	Tied to fence in back yard at 1420 Arnold St
											ACE	0.38	
											CHEX	0.85	
											EBN	0.74	
											HEX	2.3	
											HP	0.93	
											TOL	3.4	
											XYLMP	2.5	
											XYLO	1.1	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA06_Ph3	0.066 J, J1	0.11 J	<0.011	<0.0051 C	0.036	<0.014 C, J	<0.014	0.5	0.073 J1	0.034	12DCA	0.065 J1	Tied to fence in southeast corner of yard at 1402 Arnold St; adjacent yard to Phase 2 location
											ACE	0.7 J1	
											CHEX	0.49	
											EBN	0.48 J	
											HEX	2	
											HP	0.77 J1	
											MEK	0.39 J	
											TOL	2.4 J	
											XYLMP	1.6 J	
											XYLO	0.68 J	
OA07_Ph2	0.071	0.12	<0.0085	<0.0039 C	0.026	<0.01 C	<0.01	0.88	0.11	0.04	12DCA	0.047	North of 10th St in alley b/w Mathewson & New York
											ACE	0.33	
											CHEX	0.53	
											EBN	0.49	
											HEX	1.4	
											HP	0.61	
											MEK	0.22	
											TOL	3.1	
											XYLMP	1.8	
											XYLO	0.79	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA08_Ph2	0.064	0.1	<0.014	<0.0066 C	<0.02	<0.017 C	<0.017	0.85	<0.024	<0.02	12DCA	0.023	South of 14th St in alley b/w Emporia & St. Francis
											ACE	1	
											CHEX	0.61	
											EBN	0.57	
											HEX	1.5	
											HP	0.7	
											MEK	1	
											TOL	3.7	
											XYLMP	1.9	
											XYLO	0.8	
OA09_Ph2	0.073	0.16	<0.015	<0.0067 C	<0.021	<0.018 C	<0.018	0.68	<0.024	0.031	12DCA	0.029	North of 15th St in alley b/w Emporia & Topeka
											ACE	0.74	
											CHEX	0.69	
											EBN	0.65	
											HEX	1.7	
											HP	0.81	
											MEK	1.4	
											TOL	4.5	
											XYLMP	2.2	
											XYLO	0.96	
OA10_Ph2	0.047	0.091	<0.015	<0.0067 C	<0.021	<0.018 C	<0.018	0.69	0.042	<0.02	12DCA	0.032	Tied to front porch pole at 717 N. Mathewson Ave.
											CHEX	0.52	
											EBN	0.4	
											HEX	2.9	
											HP	0.6	
											TOL	2.7	
											XYLMP	1.4	
											XYLO	0.62	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA10_Ph3	0.051	0.15	<0.011	<0.0052 C	0.03	<0.014 C	<0.014	0.72	0.033	0.025	12DCA	0.048	Tied to trees in empty lot on south side of house
											ACE	0.43	
											CHEX	0.38	
											EBN	0.33	
											HEX	1.9	
											HP	0.6	
											MEK	0.39 J	
											TOL	2.3	
											XYLMP	1.2	
											XYLO	0.63	
OA11_Ph2	0.062	0.087	<0.014	<0.0065 C	<0.02	<0.017 C	<0.017	0.61	0.047	<0.02	12DCA	0.032	North of 16th in alley west of Park Place
											CHEX	0.52	
											EBN	0.46	
											HEX	1.4	
											HP	0.61	
											MEK	0.72	
											TOL	3.2	
											XYLMP	1.8	
											XYLO	0.84	
OA12_Ph2	0.099	0.2	<0.015	<0.0067 C	0.032	<0.018 C	<0.018	0.91	0.12	0.061	12DCA	0.056	Tied to chain link fence, north side of 17th St, 3 telephone poles east of Ohio
											CHEX	0.85	
											EBN	0.63	
											HEX	2	
											HP	0.94	
											TOL	3.9	
											XYLMP	2.4	
											XYLO	1.1	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA13_Ph2	0.068	0.11	<0.014	<0.0064 C	<0.02	<0.017 C	<0.017	0.68	0.048	<0.019	12DCA	0.038	~100' north of 12th St in alley b/w Wellington & Fairview
											ACE	0.66	
											CHEX	0.49	
											EBN	0.62	
											HEX	1.3	
											HP	0.64	
											MEK	0.82	
											TOL	4.1	
											XYLMP	2.3	
											XYLO	1	
OA14_Ph2	0.14	0.15	<0.014	<0.0064 C	0.023	<0.017 C	<0.017	0.57	0.076	0.027	12DCA	0.049	Tied to pole just east of 19th St & Washington
											ACE	0.38	
											CHEX	0.75	
											EBN	0.81	
											HEX	2	
											HP	1	
											MEK	0.58	
											TOL	4.7	
											XYLMP	2.9	
											XYLO	1.2	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA15_Ph2	0.035	0.11	<0.015	<0.0067 C	<0.021	<0.018 C	<0.018	0.8	0.04	<0.02	12DCA	0.036	Tied to downspout on north side of building
											ACE	0.36	
											CHEX	0.45	
											EBN	0.36	
											HEX	2	
											HP	0.66	
											TOL	2.3	
											XYLMP	1.3	
											XYLO	0.54	
OA16_Ph2	0.095	0.096	<0.015	<0.0068 C	<0.021	<0.018 C	<0.018	0.69	0.065	<0.02	12DCA	0.04	Tied to tree across street from Via Christi Daycare
											ACE	0.65	
											CHEX	0.37	
											EBN	0.39	
											HEX	1.8 J1	
											HP	0.49	
											MEK	0.48	
											TOL	6 E	
											XYLMP	1.4	
											XYLO	0.7	
OA17_Ph2	0.059	0.1	<0.015	<0.0068 C	<0.021	<0.018 C	<0.018	0.56	0.04	<0.02	12DCA	0.028	Tied behind sign near A/B entrance at United Methodist Church
											ACE	0.43	
											CHEX	0.28	
											EBN	0.36	
											HEX	0.79	
											HP	0.42	
											TOL	2.1	
											XYLMP	1.2	
											XYLO	0.66	

Table 3-2
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Outdoor Air Results

Location	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
OA17_Ph3	0.036	0.068	<0.011	<0.0052 C	0.018	<0.014 C	<0.014	0.54	0.021	<0.016	12DCA	0.038	Tied behind sign near A/B entrance at United Methodist Church
											ACE	0.51	
											CHEX	0.3	
											EBN	0.25	
											HEX	1.2	
											HP	0.44	
											MEK	0.46 J	
											TOL	1.8	
											XYLMP	0.82	
											XYLO	0.39	

IA = Indoor Air. From Risk-Based Standards for Kansas (RSK) Manual, 5th Edition. October 2010. Kansas Department of Health and Environment, Bureau of Remediation.
Modified for TCE per the KDHE's January 3, 2012 comment letter on the work plan. Modified for PCE per KDHE's March 7, 2012 e-mail.

Primary Contaminants of Concern

BEN = Benzene
CT = Carbon Tetrachloride
CFM = Chloroform
C12DCE = cis-1,2-Dichloroethene
11DCA = 1,1-Dichloroethane
11DCE = 1,1-Dichloroethene
PCE = Tetrachloroethene
111TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
VC = Vinyl chloride

Other Detects & IA Standard

ACE = Acetone (32,300 µg/m3)
CHEX = Cyclohexane (NL)
12DCA = 1,2-Dichloroethane (0.936 µg/m3)
EBN = Ethylbenzene (9.73 µg/m3)
HEX = Hexane (730.0 µg/m3)
HP = Heptane (NL)
MEK = 2-Butanone (Methyl ethyl ketone) (5,210.0 µg/m3)
TOL = Toluene (5,210.0 µg/m3)
XYLMP = m,p-Xylene (104.0 µg/m3)
XYLO = o-Xylene (104.0 µg/m3)

Qualifiers

C = Estimated concentration due to calculated sampling rate.
J = Estimated value due to bias in the continuing calibration verification (CCV).
J1 = Estimated value due to relative percent difference (RPD) exceedence.
J+ = Estimated value due to high surrogate recovery bias.

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type						Address					Notes
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC1-LR_Ph3	1920	Crawlspace						717 N. Mathewson Ave.					Sampled in living room of in-home daycare
	<1	<1.3	<0.74	<0.48	<1	<0.75	<0.74	1.4	<1.2	<0.91	13BD	0.91	
											ACE	570 E	
											CM	1.6	
											DCDFM	2.4	
											ETH	140	
											HEX	1	
											IPA	33	
											TCFM	1.2	
											TOL	4.5	
DC4-104_Ph3		Basement but only used as a tornado shelter						610 N. Main St					Canister placed behind printer in corner near blinds
	<1	<1.3	<0.74	<0.48	<1	<0.76	<0.74	0.84	<1.2	<0.91	14DX	0.69	
											ACE	300 E	
											CM	1.3	
											DCDFM	5	
											EBN	1.1	
											ETH	71	
											HEX	1.4	
											HP	0.8	
											IPA	14	
											MEK	3.4	
											TCFM	1.4	
											TOL	2.4	
											XYLMP	2	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
DC5-109C/C5_Ph2		Basement						330 N. Broadway					Children's church school (Rm 109C) room in basement (Level 1)
	<0.98	<1.2	<0.72	<0.47	<1	<0.74	<0.72	0.78	<1.2	<0.89	ACE	46	
											CDS	6	
											CM	0.78 J	
											DCDFM	2.6	
											ETH	46	
											IPA	3.7	
											TCFM	1.4	
											TOL	6.3	
											XYLMP	1.6	
L01_Ph3_LVR	1950	4-plex w/ crawlspace						1105 E. 12th St N. - Apt 100					Sampled in living room
	<1	<1.3	<0.76	<0.49	<1	<0.77	<0.76	<0.61	<1.2	0.97	ACE	65	
											CM	1.2	
											DCDFM	2.3	
											ETH	290 E	
											IPA	55	
											TCFM	1.1	
											TOL	5.8	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type						Address				
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)	Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**		
L09_Ph3_CWL	1995	Crawlspace						1151 N. Ohio Ave.				Sampled crawlsapce
	<0.92	<1.2	<0.68	<0.44	<0.93	<0.69	<0.68	<0.55	<1.1	<0.83	ACE 11	
											CM 1.2	
											DCDFM 2.6	
											ETH 25	
											HEX 0.89	
											TCFM 1.1	
											TOL 1.4	
L09_Ph3_LVR	1995	Crawlspace						1151 N. Ohio Ave.				Sampled in living room
	<0.9	<1.1	<0.67	<0.43	<0.92	<0.68	<0.67	1.1	<1	5.1	124TMB 0.82	
											12DCA 0.88	
											ACE 25	
											CHEX 0.78	
											CM 1.2	
											DCDFM 2.5	
											EBN 0.78	
											ETH 320 E	
											HEX 2.1	
											HP 1.1	
											IPA 14	
											MEK 2.6	
											TCFM 1.2	
											TOL 6.6	
											XYLMP 2.8	
											XYLO 0.93	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type							Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L13/C1_Ph2	1920	Basement (full) but not in use						1208 N. Emporia Ave.					Sampled in living room
	<1.6	<2	<1.2	<0.75	<1.6	<1.2	<1.2	0.95	<1.8	<1.4	ACE	26	
											CM	0.75 J	
											DCDFM	2	
											ETH	160	
											HEX	1.5	
											IPA	4	
											TOL	2.7	
											XYLMP	1.6	
L21/C2_Ph2	1930	Crawlspace						1148 N. Indiana Ave.					Paint cans (sealed) in kitchen. Sampled in living room.
	<1.7	<2.2	<1.3	<0.81	<1.7	<1.3	<1.3	<1	<2	<1.6	ACE	24	
											CM	0.85 J	
											DCDFM	2.3	
											ETH	190	
											HEX	1.7	
											IPA	75	
											MECL	2.4	
											TCFM	1.9	
											TOL	2.8	
											XYLMP	1.6	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L22/C3_Ph2	1955	Crawlspace						1420 E. Arnold St					Drycleaning occas. used. Sampled in living room.
	<1.7	<2.2	<1.3	<0.81	<1.7	<1.3	<1.3	<1	<2	<1.6	12DCA	1.3	
											ACE	42	
											CM	1.6 J	
											DCDFM	2.2	
											ETH	240	
											HEX	1.5	
											HP	1.5	
											IPA	690 E	
											TOL	3.6	
											XYLMP	2.1	
L25_Ph3_CWL	1955	Crawlspace						1402 E. Arnold St					Sampled crawlspace
	<0.85	<1.1	<0.63	<0.4	<0.86	<0.64	<0.63	1.6	<0.99	<0.77	124TMB	1	
											224TMP	3.7	
											4ETOL	0.91	
											ACE	4.9	
											CHEX	0.84	
											CM	0.82	
											DCDFM	2.4	
											EBN	1	
											ETH	8.9	
											HEX	2.6	
											HP	1.7	
											TCFM	1.2	
											TOL	4.4	
											XYLMP	3.3	
											XYLO	1.2	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type							Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L25_Ph3_LVR	1955	Crawlspace						1402 E. Arnold St					Sampled in living room
	<0.85	<1.1	<0.63	<0.4	<0.86	<0.64	<0.63	1.8	<0.99	<0.77	124TMB	0.83	
											12DCA	1.2	
											224TMP	4.3	
											4ETOL	0.82	
											ACE	24	
											CHEX	1.2	
											CM	1.2	
											DCDFM	2.5	
											EBN	0.96	
											ETH	460 E	
											HEX	3.9	
											HP	2.1	
											IPA	8.2	
											TCFM	1.2	
											TOL	5.4	
											XYLMP	3.5	
											XYLO	1.2	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type							Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L34_Ph3_BSMT	2003	Basement (full) but only used for laundry						1035 N. Cleveland Ave.					Sampled in basement
	<1	<1.3	<0.74	<0.48	<1	<0.76	<0.74	1.6	<1.2	<0.91	124TMB	17	
											135TMB	5.9	
											4ETOL	17	
											ACE	410 E	
											CHEX	0.77	
											CM	1	
											DCDFM	2.4	
											EBN	9.5	
											ETH	620 E	
											HEX	2.2	
											HP	1.1	
											IPA	9.7	
											IPB	1.4	
											NPB	4.1	
											TCFM	1.1	
											TOL	8.6	
											XYLMP	42	
											XYLO	18	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type							Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L34_Ph3_LVR	2003	Basement (full) but only used for laundry						1035 N. Cleveland Ave.					Sampled in living room
	<0.8	<1	<0.59	<0.38	<0.81	<0.6	<0.59	0.98	<0.94	<0.73	124TMB	20	
											12DCA	0.63	
											135TMB	6.5	
											4ETOL	20	
											ACE	460 E	
											CHEX	0.51	
											CM	0.59	
											DCDFM	1	
											EBN	10	
											ETH	860 E	
											HEX	1.2	
											HP	0.81	
											IPA	11	
											IPB	1.5	
											NPB	4.6	
											TOL	7	
											XYLMP	45	
											XYLO	21	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type						Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L45_Ph3_BSMT	1994	Basement (full) - in use						1347 N. Mathewson Ave.					Sampled in basement
	<0.96	<1.2	<0.71	<0.46	<0.98	<0.72	<0.71	0.82	<1.1	1.4	124TMB	1	
											14DCB	12	
											ACE	46	
											CHEX	0.85	
											CM	1.1	
											DCDFM	2.6	
											ETH	1000 E	
											HEX	2.1	
											HP	1.4	
											IPA	38	
											MEK	5.3	
											STY	0.82	
											TCFM	1.4	
											TOL	7.2	
											XYLMP	1.4	
L45_Ph3_LVR	1994	Basement (full) - in use						1347 N. Mathewson Ave.					Sampled in living room
	<2.3	<2.9	<1.7	<1.1	<2.3	<1.7	<1.7	<1.4	<2.7	<2.1	14DCB	3.6	
											ACE	60	
											CM	1.8	
											DCDFM	3.1	
											ETH	2100 E	
											HEX	2	
											IPA	31	
											MEK	8.8	
											TOL	16	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type							Address					
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)		Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**			
L45_Ph3_TOTE	1994	Basement (full) - in use						1347 N. Mathewson Ave.					1L grab sample from tote
	<5.3	<6.6	<3.9	<2.5	<5.3	<4	<3.9	<3.1	12	79	ETH	18	
											TOL	20	
L47/C4_Ph2	1920	Basement (partial) but not in use						515 N. Mathewson Ave.					Sampled in living room
	<1.2	<1.5	<0.88	<0.57	<1.2	<0.9	<0.88	2.4	<1.4	<1.1	124TMB	1.6	
											14DCB	3.5	
											4ETOL	1.4	
											ACE	32	
											CHEX	1.3	
											CM	0.84 J	
											DCDFM	2.1	
											EBN	1.4	
											ETH	240 E	
											HEX	4.2	
											HP	2.7	
											IPA	10	
											MEK	3.5	
											TCFM	1.3	
											TOL	9.8	
											XYLMP	4.7	
											XYLO	1.7	

Table 3-3
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Indoor Air Results, Canister Samples

Location	Year Built	Sublevel Type						Address				
	TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)	Other Compounds (µg/m3)	Notes
KDHE Tier 2 IA Std	**2.09**	**41.7**	**36.5**	**5.53**	**5,210**	**15.2**	**209**	**3.12**	**4.06**	**1.06**		

IA = Indoor Air. From Risk-Based Standards for Kansas (RSK) Manual, 5th Edition. October 2010. Kansas Department of Health and Environment, Bureau of Remediation. Modified for TCE per the KDHE's January 3, 2012 comment letter on the work plan. Modified for PCE per KDHE's March 7, 2012 e-mail.

Primary Contaminants of Concern

BEN = Benzene
CT = Carbon Tetrachloride
CFM = Chloroform
C12DCE = cis-1,2-Dichloroethene
11DCA = 1,1-Dichloroethane
11DCE = 1,1-Dichloroethene
PCE = Tetrachloroethene
111TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
VC = Vinyl chloride

Qualifiers

E = Exceeds instrument calibration range.
J = Estimated value due to bias in the continuing calibration verification (CCV).

Other Detects & IA Standard

ACE = Acetone (32,300 µg/m3)
13BD = 1,3-Butadiene (0.811 µg/m3)
CDS = Carbon disulfide (730.0 µg/m3)
CHEX = Cyclohexane (NL)
CM = Chloromethane (93.9 µg/m3)
14DCB = 1,4-Dichlorobenzene (2.21 µg/m3)
DCDFM = Dichlorodifluoromethane = Freon 12 (209.0 µg/m3)
12DCA = 1,2-Dichloroethane (0.936 µg/m3)
14DX = 1,4-Dioxane (NL)
ETH = Ethanol (NL)
EBN = Ethylbenzene (9.73 µg/m3)
4ETOL = 4-Ethyltoluene (NL)
HEX = Hexane (730.0 µg/m3)
HP = Heptane (NL)
IPA = Isopropylalcohol = 2-Propanol (NL)
IPB = Isopropylbenzne (417.0 µg/m3)
MECL = Methylene chloride (51.8 µg/m3)
MEK = 2-Butanone (Methyl ethyl ketone) (5,210.0 µg/m3)
NPB = n-Propylbenzene (1,040.0 µg/m3)
STY = Styrene (1,040.0 µg/m3)
TOL = Toluene (5,210.0 µg/m3)
TCFM = Trichlorofluoromethane = Freon 11 (730.0 µg/m3)
124TMB = 1,2,4-Trimethylbenzene (7.3 µg/m3)
135TMB = 1,3,5-Trimethylbenzene (36.5 µg/m3)
224TMP = 2,2,4-Trimethylpentane (NL)
XYLMP = m,p-Xylene (104.0 µg/m3)
XYLO = o-Xylene (104.0 µg/m3)

Table 3-4
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - Comparison of Passive and Canister Samples for Contaminants of Concern

Location		TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)
DC5-109C/C5_PH2											
	Passive	0.45	0.15	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1	0.031	0.31
	Canister	<0.98	<1.2	<0.72	<0.47	<1	<0.74	<0.72	0.78	<1.2	<0.89
L13/C1_PH2											
	Passive	0.12	0.13	<0.018	<0.0076	0.17	<0.015	<0.021	1.4	0.034	0.17
	Canister	<1.6	<2	<1.2	<0.75	<1.6	<1.2	<1.2	0.95	<1.8	<1.4
L21/C2_PH2											
	Passive	0.13	0.31	<0.018	<0.0075	2.3	<0.015	0.023	0.7	0.28	0.44
	Canister	<1.7	<2.2	<1.3	<0.81	<1.7	<1.3	<1.3	<1	<2	<1.6
L22/C3_PH2											
	Passive	0.087	0.13	<0.018	<0.0075	0.031	<0.015	<0.021	1.9	0.12	1.1
	Canister	<1.7	<2.2	<1.3	<0.81	<1.7	<1.3	<1.3	<1	<2	<1.6
L47/C4_PH2											
	Passive	0.17	0.19	<0.018	<0.0076	0.034	<0.015	<0.021	2	0.12	1.4
	Canister	<1.2	<1.5	<0.88	<0.57	<1.2	<0.9	<0.88	2.4	<1.4	<1.1

Table 3-5
North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation - RPDs for Original and Duplicate Samples for Contaminants of Concern

Location		TCE (µg/m3)	PCE (µg/m3)	C12DCE (µg/m3)	VC (µg/m3)	111TCA (µg/m3)	11DCA (µg/m3)	11DCE (µg/m3)	BEN (µg/m3)	CT (µg/m3)	CFM (µg/m3)
DC4-NUR_PH2											
	Original	0.12	1	<0.018	<0.0076	0.053	<0.015	<0.021	1	0.039	0.16
	Duplicate	0.11	0.94	<0.018	<0.0076	0.036	<0.015	<0.021	1.1	<0.03	0.16
	RPD	9%	6%	----%	----%	38%	----%	----%	10%	----%	0%
L17_PH2											
	Original	0.1	0.32	<0.018	<0.0076	0.098	<0.015	<0.021	1.4	0.049	0.24J1
	Duplicate	0.12	0.32	<0.018	<0.0076	0.093	<0.015	<0.021	1.3	0.048	0.17J1
	RPD	18%	0%	----%	----%	5%	----%	----%	7%	2%	34%
L31_PH2											
	Original	0.13	0.16	<0.018	<0.0076	<0.029	<0.015	<0.021	1.1J1	0.062	0.38
	Duplicate	0.13	0.16	<0.018	<0.0076	<0.029	<0.015	<0.021	0.6J1	0.056	0.3
	RPD	0%	0%	----%	----%	----%	----%	----%	59%	10%	24%
L44_PH2											
	Original	0.15	0.31	<0.018	<0.0076	0.031	<0.015	<0.021	2	0.085	0.57
	Duplicate	0.15	0.29	<0.018	<0.0076	0.032	<0.015	<0.021	1.9	0.078	0.57
	RPD	0%	7%	----%	----%	3%	----%	----%	5%	9%	0%
L47/C4_PH2											
	Original	0.17	0.19	<0.018	<0.0076	0.034	<0.015	<0.021	2	0.12	1.4
	Duplicate	0.16	0.17	<0.018	<0.0076	0.03	<0.015	<0.021	2.3	0.11	1.4
	RPD	6%	11%	----%	----%	13%	----%	----%	14%	9%	0%
OA04_PH2											
	Original	0.079	0.12	<0.013	<0.0058C	<0.018	<0.015C	<0.015	0.91	0.037	0.037
	Duplicate	0.076	0.12	<0.013	<0.0058C	<0.018	<0.015C	<0.015	0.8	0.036	<0.017
	RPD	4%	0%	----%	----%	----%	----%	----%	13%	3%	----%
OA06_PH3											
	Original	0.066J, J1	0.11J	<0.011	<0.0051C	0.036	<0.014C, J	<0.014	0.5	0.073J1	0.034
	Duplicate	0.031J1	0.082	<0.011	<0.0051C	0.022	<0.014C	<0.014	0.65	0.034J1	0.023
	RPD	72%	29%	----%	----%	48%	----%	----%	26%	73%	39%
OA16_PH2											
	Original	0.095	0.096	<0.015	<0.0068C	<0.021	<0.018C	<0.018	0.69	0.065	<0.02
	Duplicate	0.075	0.092	<0.015	<0.0068C	<0.021	<0.018C	<0.018	0.8	0.042	<0.02
	RPD	24%	4%	----%	----%	----%	----%	----%	15%	43%	----%

Qualifiers

C = Estimated concentration due to calculated sampling rate.

J = Estimated value due to bias in the continuing calibration verification (CCV).

J1 = Estimated value due to relative percent difference (RPD) exceedence.

Section 4
Conclusions and Recommendations

This section discusses conclusions from the VI assessment and presents recommendations.

4.1 Conclusions

During Phase 2, 46 residential buildings; five daycare facilities; and 17 outdoor air sample locations were tested. During Phase 3, five residential buildings; two daycare facilities; and five outdoor air sample locations from Phase 2 were re-tested to verify Phase 2 results.

- Of the 10 COPCs identified for the NIC Site (Section 1.1.2), TCE is the most widespread in both extent and mass present, with C12DCE and PCE the second and third-most widespread, respectively. The remaining target compounds are fairly localized in extent and minimal in mass. None of the TCE or PCE results for either indoor or outdoor air exceeded their respective Tier 2 cleanup goals. C12DCE was not detected in any of the indoor or outdoor air samples (less than 1.7 $\mu g/m^3$). Given that these three compounds have the most mass and spatial distribution of all the groundwater COPCs at the NIC Site, the absence of potentially unacceptable risk for TCE, C12DCE, and PCE in indoor air results indicates that the VI pathway likely does not pose a significant health threat.

- CFM exceeded the Tier 2 cleanup goal in 20 of the 46 residential samples during Phase 2 and in two of 11 residential samples during Phase 3. CFM in outdoor air did not exceed the Tier 2 cleanup goal for any of the samples. CFM is a COPC for the NIC Site; however, as discussed in Section 3.1.1.1, only six out of 139 groundwater monitoring wells sampled in 2007 contained detected CFM in groundwater and none of these are immediately adjacent to any of the buildings sampled for VI. In addition, results from the HAPSITE survey (Section 3.1.2.1) indicate that CFM in indoor air is more likely due to off-gassing from indoor sources, such as bleach and household cleaners, than VI from groundwater.

- BEN exceeded the Tier 2 cleanup goal in nine of the 46 residential buildings during Phase 2 and in none of the residential samples during Phase 3. BEN in outdoor air did not exceed the Tier 2 cleanup goal for any of the samples, although the compound was present in all outdoor samples with a 95% UTL of 0.80 $\mu g/m^3$. BEN is a COPC for the NIC Site and groundwater plumes of BEN are present within the NIC Site, mostly near the former Coastal Derby Refinery; however, as discussed in Section 3.1.1.1, BEN has not been regularly detected in groundwater in the southern portion of the NIC Site where the indoor air detections of BEN occurred. It is well documented that there are many dilute indoor sources for BEN, and petroleum hydrocarbons in general, that frequently impact indoor air quality. For the samples that exceeded the Tier 2 cleanup goal for BEN, the analytical results also showed elevated levels of hexane, EBN, TOL, and XYL. This pattern of multiple hydrocarbons in indoor air suggests a complex mixture of indoor and ambient sources and not VI of a single COPC. In addition, results from the HAPSITE survey (Section 3.1.2.1) indicate that BEN in indoor air is more likely due to off-gassing from indoor sources than VI from groundwater. The weight of evidence does not indicate that BEN poses a risk for VI at the NIC Site.

- For the remaining COPCs (VC, 111TCA, 11DCA, 11DCE, and CT), results were either non-detect or concentrations remained below the respective Tier 2 cleanup goals. The absence of potentially unacceptable risk for these compounds in indoor air results also indicate that the VI pathway likely does not pose a significant health threat.
- Detected concentrations for compounds not identified as COPCs are likely due to indoor air sources.

4.2 Recommendations

Given the results from Phase 2 analytical screening and Phase 3 indoor source evaluation and confirmation sampling, the multiple lines of evidence at the NIC Site indicate an absence of potentially unacceptable risk for the VI pathway. CDM recommends no further sampling at this time for VI. This recommendation includes schools and other buildings for which access was not gained or attempted during this investigation because for the approximately 25 percent of buildings within the most at-risk areas sampled during this investigation, no building exhibited conditions indicative of potential concern for VI. Lastly, and as corollary to the previous recommendation, mitigation of the vapor intrusion pathway is not necessary for the NIC site at this time.

Section 5
References

CDM Smith[1] (CDM). 2012a. Technical Memorandum: *Phase 2 Status and Proposed Recommendations for Phase 3, NIC Site Vapor Intrusion Assessment – Modified Version Following February 24, 2012 Conference Call with the KDHE*. February 28.

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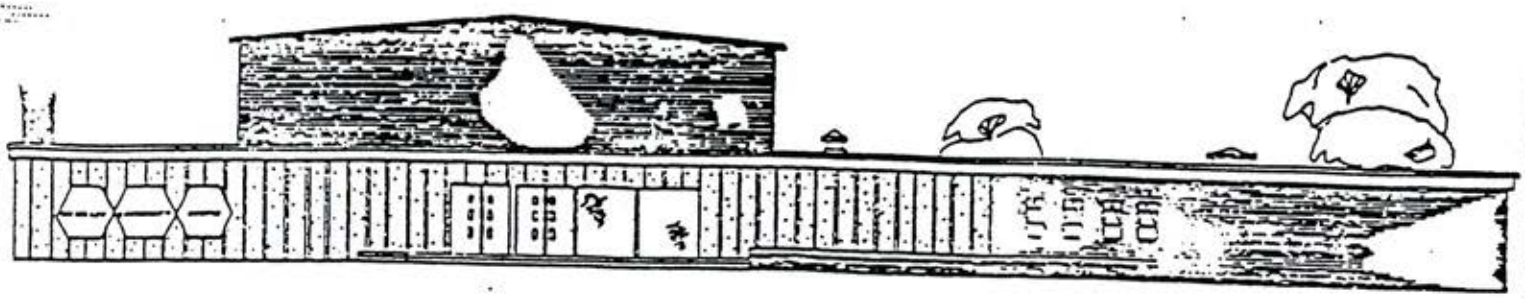
KDHE. 2007. *Kansas Vapor Intrusion Guidance: Chemical Vapor Intrusion and Residential Indoor Air*. June.

[1] CDM Smith formerly Camp Dresser & McKee Inc.

Appendix A
Daycare Maps

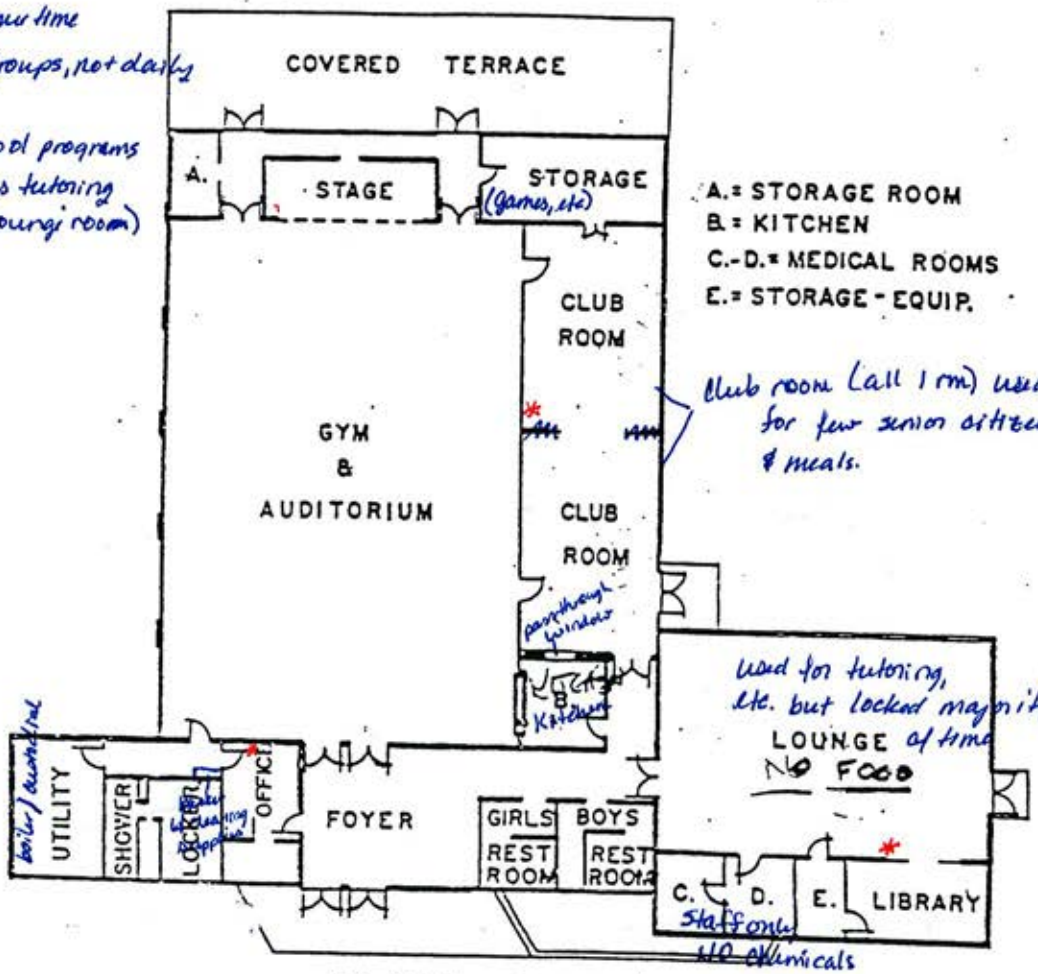


WEST ELEVATION

SCALE 1" = 20'

(slab) no basement

Use
- daily in summer time
- wintertime - groups, not daily
  - gym
  - afterschool programs such as tutoring (in lounge room)



FLOOR PLAN

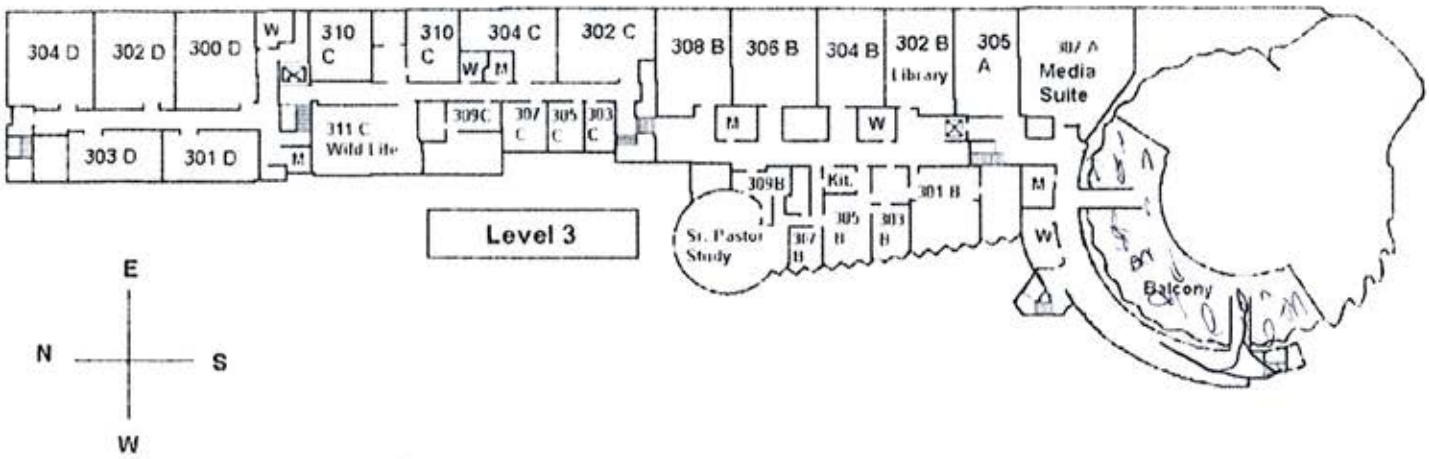
SCALE 1" = 30'

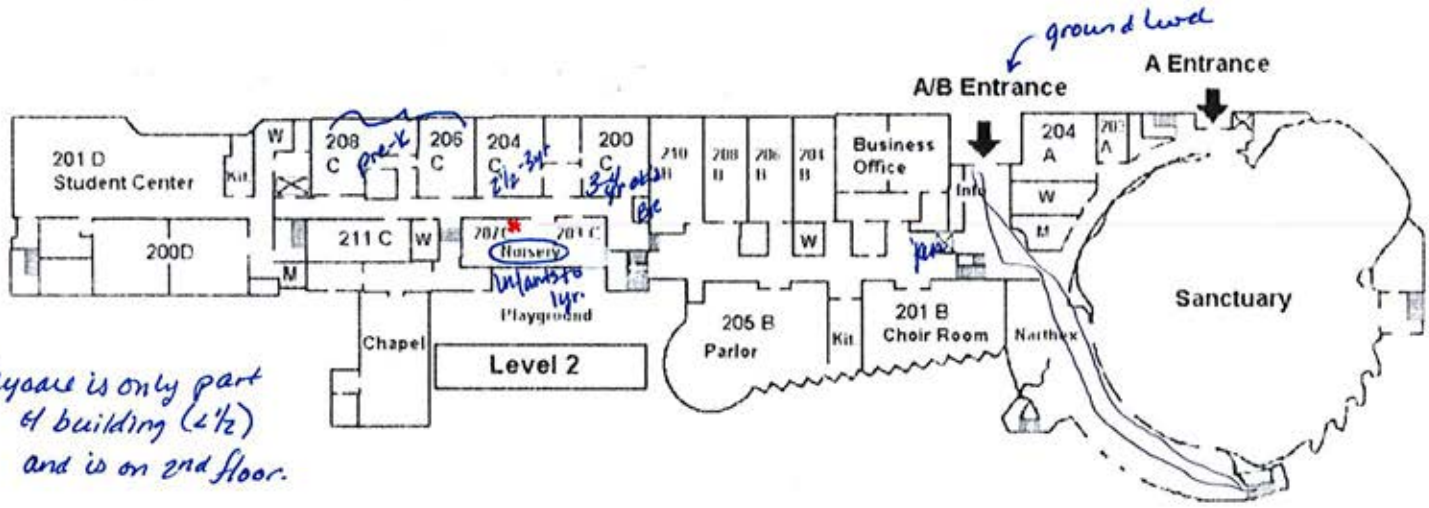
← N

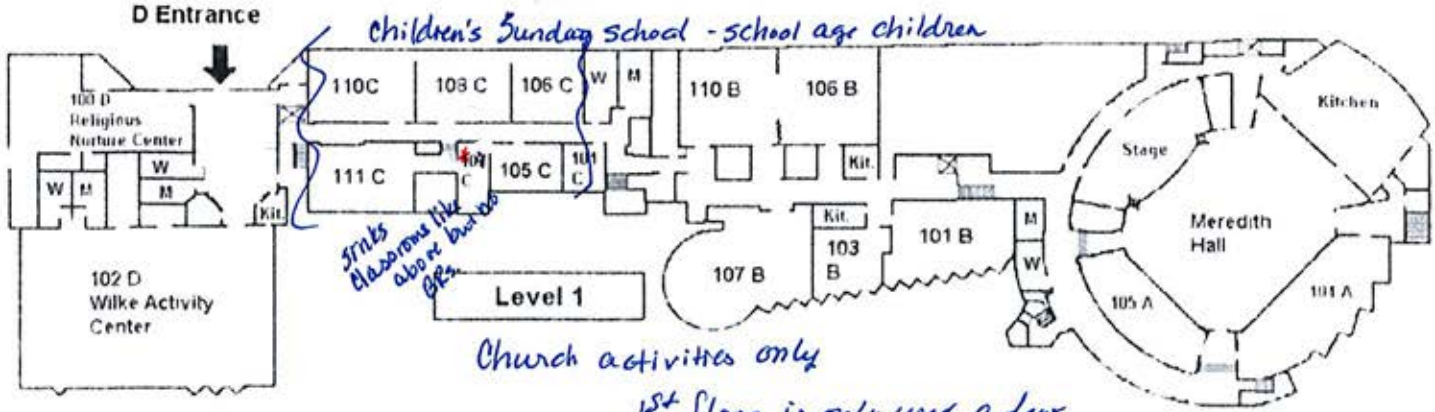
RECREATION CENTER

McADAMS PARK

First United Methodist Church
330 N. Broadway
Wichita, KS 67202 **316-267-6244**







Via Christi
HEALTH

Fire Evacuation Route Procedure

...because your life matters

Doctors
Hospitals
Senior Villages
Health Services

A fire drill will be scheduled monthly. The drill times will vary and will not be made known to staff or children. A record of the date of the drill and length of time needed to evacuate the building shall be posted on the bulletin board across from the CDC office.

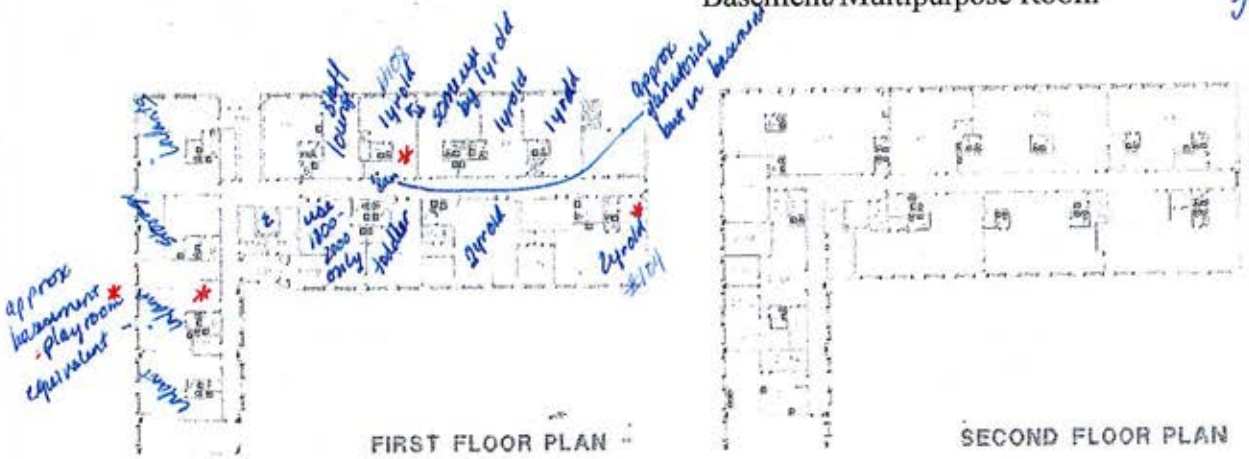
Staff will close all classroom doors and take "Class Roll Books" with them.

Listed below are evacuation routes for all CDC rooms.

South Exit of East Wing	Toddlers	105
	Twos	104
	Preschool	202,203,204,206
	Summer Rec	201,207
East Exit of East Wing (by main entrance)	Infants	111 and 112
	Toddlers	106,107,108,110
	Two's	102,103
	Preschool (Supper Eaters)	101
West Exit of North Wing	Infants	113,114
	Summer Rec	208
	Staff Lounge	209
	Office and Kitchen	210,211
	Basement/Multipurpose Room	

janatorial rm 1035 on 2nd floor & in basement - down hall from playroom

Basement has storage rooms but also has play room for kids when weather is bad.



apartments on 3rd floor

Rev 12/08

CDM

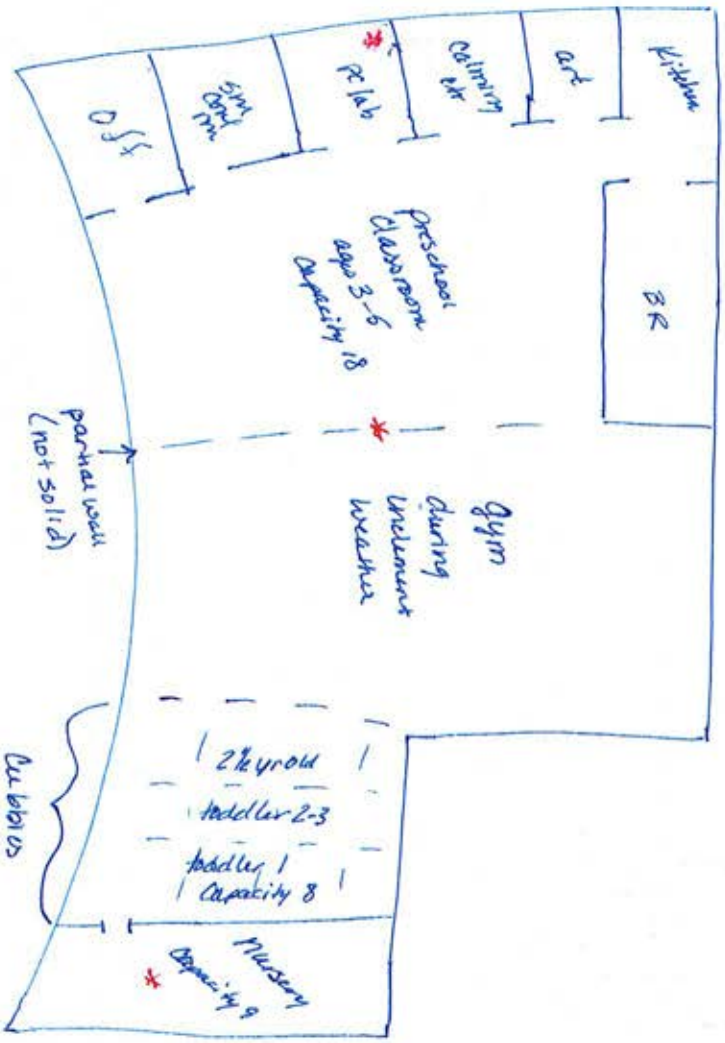
CLIENT _____ JOB NO. _____ COMPUTED BY _____
PROJECT _____ DATE CHECKED _____ DATE _____
DETAIL _____ CHECKED BY _____ PAGE NO. _____

Envision Daycare

Ages 0-5

building has been there for many yrs but daycare has only been there ~1-1.5 yrs

daycare 700-1730 M-F



← N

basement → tornado shelter
- Children only there during bad weather

Not to scale

Appendix B
Laboratory Analytical Data – NIC Site-wide Vapor Intrusion

Appendix B1
Laboratory Analytical Data – NIC Site-wide Vapor Intrusion, Phase 2

Air Toxics LTD.
Laboratory Services Since 1989

2/20/2012
Ms. Monica Williams
CDM
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-wide VI
Project #: 2395-88707
Workorder #: 1202020R1

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 2/1/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Passive Ultra III (TD) 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

WORK ORDER #: 1202020R1

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/01/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/16/2012		
DATE REISSUED:	02/17/2012		

FRACTION #	NAME	TEST
01A	IAP-NIC-1105E12TH-012312	Passive Ultra III (TD)
01B	IAP-NIC-1105E12TH-012312 Blank	Passive Ultra III (TD)
02A	IAP-NIC-1247WABASH-012312	Passive Ultra III (TD)
02B	IAP-NIC-1247WABASH-012312 Blank	Passive Ultra III (TD)
03A	IAP-NIC-1155WABASH-012312	Passive Ultra III (TD)
03B	IAP-NIC-1155WABASH-012312 Blank	Passive Ultra III (TD)
04A	IAP-NIC-1152WABASH-012312	Passive Ultra III (TD)
04B	IAP-NIC-1152WABASH-012312 Blank	Passive Ultra III (TD)
05A	IAP-NIC-1311OHIO-012312	Passive Ultra III (TD)
05B	IAP-NIC-1311OHIO-012312 Blank	Passive Ultra III (TD)
06A	OAP-NIC-1154WABASH-012312	Passive Ultra III (TD)
06B	OAP-NIC-1154WABASH-012312 Blank	Passive Ultra III (TD)
07A	IAP-NIC-1201E12TH-012312	Passive Ultra III (TD)
07B	IAP-NIC-1201E12TH-012312 Blank	Passive Ultra III (TD)
08A	IAP-NIC-1040WABASH-012412	Passive Ultra III (TD)
08B	IAP-NIC-1040WABASH-012412 Blank	Passive Ultra III (TD)
09A	IAP-NIC-1114WABASH-012412	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202020R1

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/01/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/16/2012		
DATE REISSUED:	02/17/2012		

FRACTION #	NAME	TEST
09B	IAP-NIC-1114WABASH-012412 Blank	Passive Ultra III (TD)
10A	IAP-NIC-1151OHIO-012412	Passive Ultra III (TD)
10B	IAP-NIC-1151OHIO-012412 Blank	Passive Ultra III (TD)
11A	IAP-NIC-1147OHIO-012412	Passive Ultra III (TD)
11B	IAP-NIC-1147OHIO-012412 Blank	Passive Ultra III (TD)
12A	IAP-NIC-1145OHIO-012412	Passive Ultra III (TD)
12B	IAP-NIC-1145OHIO-012412 Blank	Passive Ultra III (TD)
13A	IAP-NIC-1103OHIO-012412	Passive Ultra III (TD)
13B	IAP-NIC-1103OHIO-012412 Blank	Passive Ultra III (TD)
14A	Lab Blank	Passive Ultra III (TD)
15A	Lab Blank High Split	Passive Ultra III (TD)
16A	CCV	Passive Ultra III (TD)
17A	CCV High Split	Passive Ultra III (TD)
18A	LCS	Passive Ultra III (TD)
18AA	LCSD	Passive Ultra III (TD)
19A	LCS High Split	Passive Ultra III (TD)
19AA	LCSD High Split	Passive Ultra III (TD)

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 02/20/12

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

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

LABORATORY NARRATIVE
Passive TO-17 GC/MS
CDM
Workorder# 1202020R1

Thirteen Ultra III (TD) samples were received on February 01, 2012. The laboratory transferred the sample sorbent bed and the associated blank sorbent bed each to separate thermal desorption tubes. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The actual exposure time and temperature were used to calculate sample concentrations and reporting limits. An exposure time of 10,073 minutes and a temperature of 70F was used to calculate concentrations and reporting limits for the associated Lab Blank.

Samples IAP-NIC-1311OHIO-012312, IAP-NIC-1201E12TH-012312, IAP-NIC-1147OHIO-012412, and IAP-NIC-1145OHIO-012412 had mass concentrations for Toluene well above the standard calibration range at saturated levels. To provide reliable results, the samples were analyzed at a higher split than the initial calibration. The split used resulted in a dilution of 4 to 1, and the reporting limit and calibration range were raised accordingly.

Heptane in samples IAP-NIC-1311OHIO-012312, IAP-NIC-1147OHIO-012412, and IAP-NIC-1145OHIO-012412 was reported from the diluted analysis with a 4 to 1 split since there was severe interference in the original analysis.

THE WORKORDER WAS REISSUED ON FEBRUARY 17, 2012 TO REPORT 1,1-DICHLOROETHANE AND TO CORRECT THE SUMMARY OF ADJUSTED CONCENTRATIONS FOR ALL SAMPLES IN THE FINAL REPORT.

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 Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1105E12TH-012312

Lab ID#: 1202020R1-01A/01B

Collection Date: 01/30/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.16	Not Detected	0.017	0.16	
2-Butanone (Methyl Ethyl Ketone)	11	Not Detected	0.95	11	E
Acetone	49	0.49	0.38	48	E
Benzene	2.1	1.3	0.30	0.80	
Carbon Tetrachloride	0.033	Not Detected	0.030	0.033	
Chloroform	1.6	Not Detected	0.024	1.6	
Cyclohexane	0.96	Not Detected	0.22	0.96	
Ethyl Benzene	0.86	0.062	0.050	0.80	
Heptane	1.4	Not Detected	0.22	1.4	
Hexane	2.1	0.31	0.38	1.8	
m,p-Xylene	3.2	0.13	0.056	3.1	
Methylene Chloride	0.35	5.0	0.68	Not Detected	
o-Xylene	1.1	0.046	0.054	1.0	
Tetrachloroethene	0.36	Not Detected	0.040	0.36	
Toluene	12	0.22	0.092	12	E
Trichloroethene	0.15	Not Detected	0.024	0.15	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1247WABASH-012312

Lab ID#: 1202020R1-02A/02B

Collection Date: 01/30/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.034	Not Detected	0.029	0.034	
1,2-Dichloroethane	0.19	Not Detected	0.017	0.19	
2-Butanone (Methyl Ethyl Ketone)	9.5	Not Detected	0.96	9.5	
Acetone	10	0.56	0.38	9.4	E
Benzene	2.1	0.98	0.30	1.1	
Carbon Tetrachloride	0.076	Not Detected	0.030	0.076	
Chloroform	1.0	Not Detected	0.024	1.0	
Cyclohexane	0.82	Not Detected	0.22	0.82	
Ethyl Benzene	0.87	0.082	0.050	0.79	
Heptane	1.1	Not Detected	0.22	1.1	
Hexane	2.2	0.58	0.38	1.6	
m,p-Xylene	3.2	0.12	0.056	3.1	
Methylene Chloride	0.51	6.7	0.68	Not Detected	
o-Xylene	1.3	0.056	0.056	1.2	
Tetrachloroethene	0.17	Not Detected	0.040	0.17	
Toluene	8.7	0.25	0.092	8.4	E
Trichloroethene	0.17	Not Detected	0.024	0.17	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1155WABASH-012312

Lab ID#: 1202020R1-03A/03B

Collection Date: 01/30/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.054	Not Detected	0.017	0.054	
2-Butanone (Methyl Ethyl Ketone)	12	Not Detected	0.96	12	E
Acetone	5.1	0.33	0.38	4.8	E
Benzene	2.6	1.7	0.30	0.90	
Carbon Tetrachloride	0.060	Not Detected	0.030	0.060	
Chloroform	0.20	0.028	0.048	0.17	
Cyclohexane	1.0	Not Detected	0.22	1.0	
Ethyl Benzene	0.82	0.074	0.050	0.75	
Heptane	1.1	Not Detected	0.22	1.1	
Hexane	2.5	0.30	0.38	2.2	
m,p-Xylene	3.1	0.24	0.056	2.9	
Methylene Chloride	0.73	1.7	0.68	Not Detected	
o-Xylene	1.3	0.055	0.056	1.2	
Tetrachloroethene	0.17	Not Detected	0.040	0.17	
Toluene	13	0.24	0.092	13	E
Trichloroethene	0.16	Not Detected	0.024	0.16	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1152WABASH-012312

Lab ID#: 1202020R1-04A/04B

Collection Date: 01/31/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.12	Not Detected	0.016	0.12	
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	0.86	3.8	
Acetone	7.3	0.29	0.34	7.0	E
Benzene	2.5	1.3	0.28	1.2	
Carbon Tetrachloride	0.041	Not Detected	0.027	0.041	
Chloroform	0.20	Not Detected	0.022	0.20	
Cyclohexane	1.4	Not Detected	0.20	1.4	
Ethyl Benzene	1.2	0.064	0.044	1.1	
Heptane	1.9	Not Detected	0.20	1.9	
Hexane	2.3	0.30	0.34	2.0	
m,p-Xylene	4.2	0.15	0.050	4.0	
Methylene Chloride	1.2	2.6	0.62	Not Detected	
o-Xylene	1.8	0.050	0.050	1.8	
Tetrachloroethene	0.19	Not Detected	0.036	0.19	
Toluene	7.6	0.23	0.082	7.4	
Trichloroethene	0.17	Not Detected	0.022	0.17	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1311OHIO-012312

Lab ID#: 1202020R1-05A/05B

Collection Date: 01/30/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.030	Not Detected	0.029	0.030	
1,2-Dichloroethane	0.63	Not Detected	0.017	0.63	
2-Butanone (Methyl Ethyl Ketone)	24	Not Detected	0.96	24	E
Acetone	7.0	0.57	0.38	6.4	E
Benzene	2.8	1.6	0.30	1.2	
Carbon Tetrachloride	0.11	Not Detected	0.030	0.11	
Chloroform	0.73	Not Detected	0.024	0.73	
Cyclohexane	1.6	Not Detected	0.22	1.6	
Ethyl Benzene	4.1	0.077	0.050	4.0	
Heptane	7.7	Not Detected	0.87	7.7	
Hexane	2.4	0.30	0.38	2.1	
m,p-Xylene	14	0.15	0.056	14	E
Methylene Chloride	Not Detected	5.5	0.70	Not Detected	
o-Xylene	3.3	0.055	0.056	3.2	
Tetrachloroethene	0.44	Not Detected	0.041	0.44	
Toluene	46	0.27	0.36	46	E
Trichloroethene	0.14	Not Detected	0.024	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1154WABASH-012312

Lab ID#: 1202020R1-06A/06B

Collection Date: 01/30/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.024	Not Detected	0.016	0.024	
Acetone	0.82	0.38	0.34	0.44	
Benzene	1.4	0.58	0.22	0.82	
Carbon Tetrachloride	0.032	Not Detected	0.024	0.032	
Chloroform	0.033	Not Detected	0.020	0.033	
Cyclohexane	0.56	Not Detected	0.12	0.56	
Ethyl Benzene	0.59	0.057	0.038	0.53	
Heptane	0.59	Not Detected	0.16	0.59	
Hexane	1.9	0.44	0.28	1.5	
m,p-Xylene	1.9	0.081	0.038	1.8	
Methylene Chloride	0.55	4.5	0.52	Not Detected	
o-Xylene	0.95	0.038	0.040	0.91	
Tetrachloroethene	0.13	Not Detected	0.034	0.13	
Toluene	3.1	0.18	0.060	2.9	
Trichloroethene	0.057	Not Detected	0.020	0.057	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1201E12TH-012312

Lab ID#: 1202020R1-07A/07B

Collection Date: 01/30/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.058	Not Detected	0.017	0.058	
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	0.95	3.8	
Acetone	3.8	0.41	0.38	3.4	
Benzene	2.9	1.1	0.30	1.8	
Carbon Tetrachloride	0.044	Not Detected	0.030	0.044	
Chloroform	0.10	0.025	0.048	0.075	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	1.8	0.10	0.050	1.7	
Heptane	1.3	Not Detected	0.22	1.3	
Hexane	3.1	0.62	0.38	2.5	
m,p-Xylene	6.8	0.19	0.056	6.6	
Methylene Chloride	0.65	4.5	0.68	Not Detected	
o-Xylene	2.6	0.066	0.054	2.5	
Tetrachloroethene	0.18	Not Detected	0.040	0.18	
Toluene	52	0.31	0.36	52	E
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1040WABASH-012412

Lab ID#: 1202020R1-08A/08B

Collection Date: 01/31/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.031	Not Detected	0.029	0.031	
1,2-Dichloroethane	0.16	Not Detected	0.017	0.16	
2-Butanone (Methyl Ethyl Ketone)	14	Not Detected	0.96	14	E
Acetone	6.6	0.68	0.38	5.9	E
Benzene	3.3	1.7	0.30	1.6	
Carbon Tetrachloride	0.078	Not Detected	0.030	0.078	
Chloroform	1.4	Not Detected	0.024	1.4	
Cyclohexane	0.96	Not Detected	0.22	0.96	
Ethyl Benzene	0.82	0.082	0.050	0.74	
Heptane	1.7	Not Detected	0.22	1.7	
Hexane	3.2	0.28	0.38	2.9	
m,p-Xylene	2.8	0.12	0.056	2.7	
Methylene Chloride	Not Detected	5.6	0.68	Not Detected	
o-Xylene	1.1	0.061	0.056	1.0	
Tetrachloroethene	0.15	Not Detected	0.040	0.15	
Toluene	8.8	0.29	0.092	8.5	E
Trichloroethene	0.15	Not Detected	0.024	0.15	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1114WABASH-012412

Lab ID#: 1202020R1-09A/09B

Collection Date: 01/31/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.20	Not Detected	0.017	0.20	
2-Butanone (Methyl Ethyl Ketone)	27	Not Detected	0.96	27	E
Acetone	9.6	0.46	0.38	9.1	E
Benzene	2.1	2.0	0.30	Not Detected	
Carbon Tetrachloride	0.050	Not Detected	0.030	0.050	
Chloroform	0.74	0.033	0.048	0.71	
Cyclohexane	0.79	Not Detected	0.22	0.79	
Ethyl Benzene	0.75	0.090	0.050	0.66	
Heptane	1.1	Not Detected	0.22	1.1	
Hexane	1.7	0.29	0.38	1.4	
m,p-Xylene	2.4	0.55	0.056	1.8	
Methylene Chloride	0.42	4.9	0.70	Not Detected	
o-Xylene	0.90	0.073	0.056	0.83	
Tetrachloroethene	0.21	Not Detected	0.041	0.21	
Toluene	5.5	0.37	0.092	5.1	
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1151OHIO-012412

Lab ID#: 1202020R1-10A/10B

Collection Date: 01/31/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.029	Not Detected	0.029	0.029	
1,2-Dichloroethane	0.85	Not Detected	0.017	0.85	
2-Butanone (Methyl Ethyl Ketone)	14	Not Detected	0.96	14	E
Acetone	5.4	0.42	0.38	5.0	E
Benzene	3.9	1.6	0.30	2.3	
Carbon Tetrachloride	0.079	Not Detected	0.030	0.079	
Chloroform	0.80	Not Detected	0.024	0.80	
Cyclohexane	2.7	Not Detected	0.22	2.7	
Ethyl Benzene	2.4	0.084	0.050	2.3	
Heptane	2.2	Not Detected	0.22	2.2	
Hexane	5.4	0.31	0.38	5.1	
m,p-Xylene	10	0.17	0.056	9.8	
Methylene Chloride	Not Detected	5.0	0.70	Not Detected	
o-Xylene	3.5	0.058	0.056	3.4	
Tetrachloroethene	0.26	Not Detected	0.041	0.26	
Toluene	21	0.26	0.092	21	E
Trichloroethene	0.14	Not Detected	0.024	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1147OHIO-012412

Lab ID#: 1202020R1-11A/11B

Collection Date: 01/31/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.030	Not Detected	0.029	0.030	
1,2-Dichloroethane	2.2	Not Detected	0.017	2.2	
2-Butanone (Methyl Ethyl Ketone)	7.6	Not Detected	0.95	7.6	
Acetone	6.4	0.38	0.38	6.0	E
Benzene	6.2	1.4	0.30	4.8	E
Carbon Tetrachloride	0.18	Not Detected	0.030	0.18	
Chloroform	18	Not Detected	0.024	18	E
Cyclohexane	4.6	Not Detected	0.22	4.6	
Ethyl Benzene	6.0	0.070	0.050	5.9	
Heptane	4.0	Not Detected	0.86	4.0	
Hexane	7.5	0.32	0.38	7.2	E
m,p-Xylene	26	0.13	0.056	26	E
Methylene Chloride	0.88	3.8	0.68	Not Detected	
o-Xylene	8.7	0.057	0.054	8.6	
Tetrachloroethene	0.29	Not Detected	0.040	0.29	
Toluene	46	0.22	0.36	46	E
Trichloroethene	0.15	Not Detected	0.024	0.15	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1145OHIO-012412

Lab ID#: 1202020R1-12A/12B

Collection Date: 01/31/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.050	Not Detected	0.029	0.050	
1,1-Dichloroethene	0.027	Not Detected	0.021	0.027	
1,2-Dichloroethane	0.40	Not Detected	0.017	0.40	
2-Butanone (Methyl Ethyl Ketone)	13	Not Detected	0.95	13	E
Acetone	12	0.66	0.38	11	E
Benzene	2.8	1.3	0.30	1.5	
Carbon Tetrachloride	0.11	Not Detected	0.030	0.11	
Chloroform	1.4	0.030	0.048	1.4	
Cyclohexane	2.6	Not Detected	0.22	2.6	
Ethyl Benzene	2.8	0.15	0.050	2.6	
Heptane	4.2	Not Detected	0.86	4.2	
Hexane	3.9	0.59	0.38	3.3	
m,p-Xylene	10	0.31	0.056	9.7	
Methylene Chloride	1.4	5.3	0.68	Not Detected	
o-Xylene	4.1	0.099	0.056	4.0	
Tetrachloroethene	0.21	Not Detected	0.040	0.21	
Toluene	36	0.55	0.36	35	E
Trichloroethene	0.16	Not Detected	0.024	0.16	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1103OHIO-012412

Lab ID#: 1202020R1-13A/13B

Collection Date: 01/31/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.19	Not Detected	0.017	0.19	
2-Butanone (Methyl Ethyl Ketone)	8.7	Not Detected	0.96	8.7	
Acetone	5.6	0.48	0.38	5.1	E
Benzene	3.3	1.2	0.30	2.1	
Chloroform	2.1	Not Detected	0.024	2.1	
Cyclohexane	1.6	Not Detected	0.22	1.6	
Ethyl Benzene	2.5	0.087	0.050	2.4	
Heptane	1.9	Not Detected	0.22	1.9	
Hexane	3.6	0.54	0.38	3.1	
m,p-Xylene	10	0.14	0.056	9.9	
Methylene Chloride	Not Detected	4.7	0.70	Not Detected	
o-Xylene	4.2	0.064	0.056	4.1	
Tetrachloroethene	0.39	Not Detected	0.041	0.39	
Toluene	18	0.28	0.092	18	E
Trichloroethene	0.16	Not Detected	0.024	0.16	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1105E12TH-012312

Lab ID#: 1202020R1-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	6100 E	49 E
Methylene Chloride	35	0.34	35	0.35
Hexane	18	0.19	200	2.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	700 E	11 E
Chloroform	2.4	0.024	160	1.6
Cyclohexane	17	0.22	73	0.96
Carbon Tetrachloride	3.1	0.030	3.4	0.033
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	19	0.16
Heptane	20	0.22	130	1.4
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.046	1000 E	12 E
Tetrachloroethene	4.0	0.040	35	0.36
Ethyl Benzene	2.2	0.025	77	0.86
m,p-Xylene	2.2	0.028	250	3.2
o-Xylene	2.2	0.027	90	1.1

Client Sample ID: IAP-NIC-1105E12TH-012312 Blank

Lab ID#: 1202020R1-01B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	61	0.49
Methylene Chloride	35	0.34	500	5.0
Hexane	18	0.19	29	0.31
Benzene	16	0.15	140	1.3
Toluene	4.0	0.046	19	0.22
Ethyl Benzene	2.2	0.025	5.5	0.062
m,p-Xylene	2.2	0.028	11	0.13
o-Xylene	2.2	0.027	3.7	0.046

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1247WABASH-012312

Lab ID#: 1202020R1-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1300 E	10 E
Methylene Chloride	35	0.34	51	0.51
Hexane	18	0.19	210	2.2
2-Butanone (Methyl Ethyl Ketone)	59	0.96	590	9.5
Chloroform	2.4	0.024	100	1.0
1,1,1-Trichloroethane	2.7	0.029	3.2	0.034
Cyclohexane	17	0.22	63	0.82
Carbon Tetrachloride	3.1	0.030	7.8	0.076
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	23	0.19
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	19	0.17
Toluene	4.0	0.046	760 E	8.7 E
Tetrachloroethene	4.0	0.040	16	0.17
Ethyl Benzene	2.2	0.025	78	0.87
m,p-Xylene	2.2	0.028	250	3.2
o-Xylene	2.2	0.028	100	1.3

Client Sample ID: IAP-NIC-1247WABASH-012312 Blank

Lab ID#: 1202020R1-02B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	70	0.56
Methylene Chloride	35	0.34	680	6.7
Hexane	18	0.19	54	0.58
Benzene	16	0.15	100	0.98
Toluene	4.0	0.046	22	0.25
Ethyl Benzene	2.2	0.025	7.3	0.082
m,p-Xylene	2.2	0.028	9.9	0.12
o-Xylene	2.2	0.028	4.5	0.056

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1155WABASH-012312

Lab ID#: 1202020R1-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	640 E	5.1 E
Methylene Chloride	35	0.34	74	0.73
Hexane	18	0.19	230	2.5
2-Butanone (Methyl Ethyl Ketone)	59	0.96	740 E	12 E
Chloroform	2.4	0.024	20	0.20
Cyclohexane	17	0.22	79	1.0
Carbon Tetrachloride	3.1	0.030	6.2	0.060
Benzene	16	0.15	280	2.6
1,2-Dichloroethane	2.0	0.017	6.3	0.054
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	18	0.16
Toluene	4.0	0.046	1100 E	13 E
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	73	0.82
m,p-Xylene	2.2	0.028	240	3.1
o-Xylene	2.2	0.028	100	1.3

Client Sample ID: IAP-NIC-1155WABASH-012312 Blank

Lab ID#: 1202020R1-03B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	42	0.33
Methylene Chloride	35	0.34	170	1.7
Hexane	18	0.19	28	0.30
Chloroform	2.4	0.024	2.8	0.028
Benzene	16	0.15	180	1.7
Toluene	4.0	0.046	21	0.24
Ethyl Benzene	2.2	0.025	6.6	0.074
m,p-Xylene	2.2	0.028	19	0.24
o-Xylene	2.2	0.028	4.4	0.055

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1152WABASH-012312

Lab ID#: 1202020R1-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	1000 E	7.3 E
Methylene Chloride	35	0.31	140	1.2
Hexane	18	0.17	240	2.3
2-Butanone (Methyl Ethyl Ketone)	59	0.86	260	3.8
Chloroform	2.4	0.022	23	0.20
Cyclohexane	17	0.20	120	1.4
Carbon Tetrachloride	3.1	0.027	4.7	0.041
Benzene	16	0.14	290	2.5
1,2-Dichloroethane	2.0	0.016	16	0.12
Heptane	20	0.20	190	1.9
Trichloroethene	2.7	0.022	21	0.17
Toluene	4.0	0.041	740	7.6
Tetrachloroethene	4.0	0.036	20	0.19
Ethyl Benzene	2.2	0.022	120	1.2
m,p-Xylene	2.2	0.025	370	4.2
o-Xylene	2.2	0.025	160	1.8

Client Sample ID: IAP-NIC-1152WABASH-012312 Blank

Lab ID#: 1202020R1-04B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	40	0.29
Methylene Chloride	35	0.31	290	2.6
Hexane	18	0.17	31	0.30
Benzene	16	0.14	150	1.3
Toluene	4.0	0.041	23	0.23
Ethyl Benzene	2.2	0.022	6.3	0.064
m,p-Xylene	2.2	0.025	13	0.15
o-Xylene	2.2	0.025	4.4	0.050

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1311OHIO-012312

Lab ID#: 1202020R1-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	860 E	7.0 E
Hexane	18	0.19	230	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.96	1400 E	24 E
Chloroform	2.4	0.024	72	0.73
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	130	1.6
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	300	2.8
1,2-Dichloroethane	2.0	0.017	73	0.63
Heptane	80	0.87	710	7.7
Trichloroethene	2.7	0.024	16	0.14
Toluene	16	0.18	4000 E	46 E
Tetrachloroethene	4.0	0.041	44	0.44
Ethyl Benzene	2.2	0.025	360	4.1
m,p-Xylene	2.2	0.028	1100 E	14 E
o-Xylene	2.2	0.028	270	3.3

Client Sample ID: IAP-NIC-1311OHIO-012312 Blank

Lab ID#: 1202020R1-05B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	71	0.57
Methylene Chloride	35	0.35	560	5.5
Hexane	18	0.19	28	0.30
Benzene	16	0.15	160	1.6
Toluene	4.0	0.046	23	0.27
Ethyl Benzene	2.2	0.025	6.8	0.077
m,p-Xylene	2.2	0.028	12	0.15
o-Xylene	2.2	0.028	4.4	0.055

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1154WABASH-012312

Lab ID#: 1202020R1-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	110	0.82
Methylene Chloride	35	0.26	73	0.55
Hexane	18	0.14	240	1.9
Chloroform	2.4	0.020	3.9	0.033
Cyclohexane	17	0.12	79	0.56
Carbon Tetrachloride	3.1	0.024	4.1	0.032
Benzene	16	0.11	200	1.4
1,2-Dichloroethane	2.0	0.016	3.1	0.024
Heptane	20	0.16	75	0.59
Trichloroethene	2.7	0.020	7.7	0.057
Toluene	4.0	0.030	410	3.1
Tetrachloroethene	4.0	0.034	15	0.13
Ethyl Benzene	2.2	0.019	69	0.59
m,p-Xylene	2.2	0.019	220	1.9
o-Xylene	2.2	0.020	100	0.95

Client Sample ID: OAP-NIC-1154WABASH-012312 Blank

Lab ID#: 1202020R1-06B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	52	0.38
Methylene Chloride	35	0.26	600	4.5
Hexane	18	0.14	57	0.44
Benzene	16	0.11	83	0.58
Toluene	4.0	0.030	23	0.18
Ethyl Benzene	2.2	0.019	6.6	0.057
m,p-Xylene	2.2	0.019	9.3	0.081
o-Xylene	2.2	0.020	4.1	0.038

Client Sample ID: IAP-NIC-1201E12TH-012312

Lab ID#: 1202020R1-07A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1201E12TH-012312

Lab ID#: 1202020R1-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	470	3.8
Methylene Chloride	35	0.34	66	0.65
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	240	3.8
Chloroform	2.4	0.024	10	0.10
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	4.5	0.044
Benzene	16	0.15	310	2.9
1,2-Dichloroethane	2.0	0.017	6.8	0.058
Heptane	20	0.22	120	1.3
Trichloroethene	2.7	0.024	13	0.12
Toluene	16	0.18	4600 E	52 E
Tetrachloroethene	4.0	0.040	18	0.18
Ethyl Benzene	2.2	0.025	160	1.8
m,p-Xylene	2.2	0.028	550	6.8
o-Xylene	2.2	0.027	210	2.6

Client Sample ID: IAP-NIC-1201E12TH-012312 Blank

Lab ID#: 1202020R1-07B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	51	0.41
Methylene Chloride	35	0.34	460	4.5
Hexane	18	0.19	59	0.62
Chloroform	2.4	0.024	2.5	0.025
Benzene	16	0.15	120	1.1
Toluene	4.0	0.046	27	0.31
Ethyl Benzene	2.2	0.025	9.3	0.10
m,p-Xylene	2.2	0.028	15	0.19
o-Xylene	2.2	0.027	5.3	0.066

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1040WABASH-012412

Lab ID#: 1202020R1-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	810 E	6.6 E
Hexane	18	0.19	300	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.96	880 E	14 E
Chloroform	2.4	0.024	140	1.4
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	73	0.96
Carbon Tetrachloride	3.1	0.030	8.0	0.078
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	18	0.16
Heptane	20	0.22	160	1.7
Trichloroethene	2.7	0.024	18	0.15
Toluene	4.0	0.046	770 E	8.8 E
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	73	0.82
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.028	86	1.1

Client Sample ID: IAP-NIC-1040WABASH-012412 Blank

Lab ID#: 1202020R1-08B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	84	0.68
Methylene Chloride	35	0.34	570	5.6
Hexane	18	0.19	27	0.28
Benzene	16	0.15	180	1.7
Toluene	4.0	0.046	25	0.29
Ethyl Benzene	2.2	0.025	7.3	0.082
m,p-Xylene	2.2	0.028	9.9	0.12
o-Xylene	2.2	0.028	4.9	0.061

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1114WABASH-012412

Lab ID#: 1202020R1-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1200 E	9.6 E
Methylene Chloride	35	0.35	43	0.42
Hexane	18	0.19	160	1.7
2-Butanone (Methyl Ethyl Ketone)	59	0.96	1700 E	27 E
Chloroform	2.4	0.024	74	0.74
Cyclohexane	17	0.22	60	0.79
Carbon Tetrachloride	3.1	0.030	5.1	0.050
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	23	0.20
Heptane	20	0.22	110	1.1
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	480	5.5
Tetrachloroethene	4.0	0.041	21	0.21
Ethyl Benzene	2.2	0.025	67	0.75
m,p-Xylene	2.2	0.028	190	2.4
o-Xylene	2.2	0.028	72	0.90

Client Sample ID: IAP-NIC-1114WABASH-012412 Blank

Lab ID#: 1202020R1-09B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	57	0.46
Methylene Chloride	35	0.35	500	4.9
Hexane	18	0.19	28	0.29
Chloroform	2.4	0.024	3.3	0.033
Benzene	16	0.15	210	2.0
Toluene	4.0	0.046	32	0.37
Ethyl Benzene	2.2	0.025	8.0	0.090
m,p-Xylene	2.2	0.028	44	0.55
o-Xylene	2.2	0.028	5.8	0.073

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1151OHIO-012412

Lab ID#: 1202020R1-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	660 E	5.4 E
Hexane	18	0.19	510	5.4
2-Butanone (Methyl Ethyl Ketone)	59	0.96	850 E	14 E
Chloroform	2.4	0.024	80	0.80
1,1,1-Trichloroethane	2.7	0.029	2.7	0.029
Cyclohexane	17	0.22	200	2.7
Carbon Tetrachloride	3.1	0.030	8.1	0.079
Benzene	16	0.15	410	3.9
1,2-Dichloroethane	2.0	0.017	98	0.85
Heptane	20	0.22	200	2.2
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.046	1900 E	21 E
Tetrachloroethene	4.0	0.041	26	0.26
Ethyl Benzene	2.2	0.025	220	2.4
m,p-Xylene	2.2	0.028	820	10
o-Xylene	2.2	0.028	280	3.5

Client Sample ID: IAP-NIC-1151OHIO-012412 Blank

Lab ID#: 1202020R1-10B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	52	0.42
Methylene Chloride	35	0.35	500	5.0
Hexane	18	0.19	30	0.31
Benzene	16	0.15	160	1.6
Toluene	4.0	0.046	22	0.26
Ethyl Benzene	2.2	0.025	7.4	0.084
m,p-Xylene	2.2	0.028	14	0.17
o-Xylene	2.2	0.028	4.6	0.058

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1147OHIO-012412

Lab ID#: 1202020R1-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	790 E	6.4 E
Methylene Chloride	35	0.34	89	0.88
Hexane	18	0.19	710 E	7.5 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	470	7.6
Chloroform	2.4	0.024	1800 E	18 E
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	350	4.6
Carbon Tetrachloride	3.1	0.030	19	0.18
Benzene	16	0.15	660 E	6.2 E
1,2-Dichloroethane	2.0	0.017	260	2.2
Heptane	80	0.86	370	4.0
Trichloroethene	2.7	0.024	17	0.15
Toluene	16	0.18	4000 E	46 E
Tetrachloroethene	4.0	0.040	28	0.29
Ethyl Benzene	2.2	0.025	530	6.0
m,p-Xylene	2.2	0.028	2100 E	26 E
o-Xylene	2.2	0.027	700	8.7

Client Sample ID: IAP-NIC-1147OHIO-012412 Blank

Lab ID#: 1202020R1-11B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	48	0.38
Methylene Chloride	35	0.34	380	3.8
Hexane	18	0.19	30	0.32
Benzene	16	0.15	150	1.4
Toluene	4.0	0.046	20	0.22
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.028	11	0.13
o-Xylene	2.2	0.027	4.6	0.057

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1145OHIO-012412

Lab ID#: 1202020R1-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1-Dichloroethene	2.0	0.021	2.6	0.027
Acetone	24	0.19	1400 E	12 E
Methylene Chloride	35	0.34	140	1.4
Hexane	18	0.19	370	3.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	800 E	13 E
Chloroform	2.4	0.024	140	1.4
1,1,1-Trichloroethane	2.7	0.029	4.6	0.050
Cyclohexane	17	0.22	200	2.6
Carbon Tetrachloride	3.1	0.030	11	0.11
Benzene	16	0.15	290	2.8
1,2-Dichloroethane	2.0	0.017	46	0.40
Heptane	80	0.86	390	4.2
Trichloroethene	2.7	0.024	18	0.16
Toluene	16	0.18	3100 E	36 E
Tetrachloroethene	4.0	0.040	21	0.21
Ethyl Benzene	2.2	0.025	250	2.8
m,p-Xylene	2.2	0.028	830	10
o-Xylene	2.2	0.028	330	4.1

Client Sample ID: IAP-NIC-1145OHIO-012412 Blank

Lab ID#: 1202020R1-12B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	83	0.66
Methylene Chloride	35	0.34	530	5.3
Hexane	18	0.19	56	0.59
Chloroform	2.4	0.024	3.0	0.030
Benzene	16	0.15	140	1.3
Toluene	4.0	0.046	48	0.55
Ethyl Benzene	2.2	0.025	13	0.15
m,p-Xylene	2.2	0.028	25	0.31

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1145OHIO-012412 Blank

Lab ID#: 1202020R1-12B

o-Xylene	2.2	0.028	7.9	0.099

Client Sample ID: IAP-NIC-1103OHIO-012412

Lab ID#: 1202020R1-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	700 E	5.6 E
Hexane	18	0.19	340	3.6
2-Butanone (Methyl Ethyl Ketone)	59	0.96	540	8.7
Chloroform	2.4	0.024	210	2.1
Cyclohexane	17	0.22	120	1.6
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	22	0.19
Heptane	20	0.22	170	1.9
Trichloroethene	2.7	0.024	18	0.16
Toluene	4.0	0.046	1600 E	18 E
Tetrachloroethene	4.0	0.041	38	0.39
Ethyl Benzene	2.2	0.025	220	2.5
m,p-Xylene	2.2	0.028	840	10
o-Xylene	2.2	0.028	340	4.2

Client Sample ID: IAP-NIC-1103OHIO-012412 Blank

Lab ID#: 1202020R1-13B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	59	0.48
Methylene Chloride	35	0.35	470	4.7
Hexane	18	0.19	50	0.54
Benzene	16	0.15	120	1.2
Toluene	4.0	0.046	24	0.28
Ethyl Benzene	2.2	0.025	7.7	0.087
m,p-Xylene	2.2	0.028	11	0.14
o-Xylene	2.2	0.028	5.1	0.064

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1105E12TH-012312

Lab ID#: 1202020R1-01A

VOC BY PASSIVE SAMPLER

File Name:	**6020222c**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:41:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 12:09 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	6100 E	49 E
Methylene Chloride	35	0.34	35	0.35
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	200	2.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	700 E	11 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	160	1.6
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	73	0.96
Carbon Tetrachloride	3.1	0.030	3.4	0.033
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	19	0.16
Heptane	20	0.22	130	1.4
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.046	1000 E	12 E
Tetrachloroethene	4.0	0.040	35	0.36
Ethyl Benzene	2.2	0.025	77	0.86
m,p-Xylene	2.2	0.028	250	3.2
o-Xylene	2.2	0.027	90	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1105E12TH-012312 Blank

Lab ID#: 1202020R1-01B

VOC BY PASSIVE SAMPLER

File Name:	**6020221**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:41:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 11:36 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	61	0.49
Methylene Chloride	35	0.34	500	5.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	29	0.31
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	19	0.22
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.5	0.062
m,p-Xylene	2.2	0.028	11	0.13
o-Xylene	2.2	0.027	3.7	0.046
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1247WABASH-012312

Lab ID#: 1202020R1-02A

VOC BY PASSIVE SAMPLER

File Name:	**6020224**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 7:19:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 01:15 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1300 E	10 E
Methylene Chloride	35	0.34	51	0.51
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	210	2.2
2-Butanone (Methyl Ethyl Ketone)	59	0.96	590	9.5
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	100	1.0
1,1,1-Trichloroethane	2.7	0.029	3.2	0.034
Cyclohexane	17	0.22	63	0.82
Carbon Tetrachloride	3.1	0.030	7.8	0.076
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	23	0.19
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	19	0.17
Toluene	4.0	0.046	760 E	8.7 E
Tetrachloroethene	4.0	0.040	16	0.17
Ethyl Benzene	2.2	0.025	78	0.87
m,p-Xylene	2.2	0.028	250	3.2
o-Xylene	2.2	0.028	100	1.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10051 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1247WABASH-012312 Blank

Lab ID#: 1202020R1-02B

VOC BY PASSIVE SAMPLER

File Name:	**6020223**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 7:19:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 12:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	70	0.56
Methylene Chloride	35	0.34	680	6.7
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	54	0.58
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	100	0.98
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	22	0.25
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.3	0.082
m,p-Xylene	2.2	0.028	9.9	0.12
o-Xylene	2.2	0.028	4.5	0.056
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10051 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1155WABASH-012312

Lab ID#: 1202020R1-03A

VOC BY PASSIVE SAMPLER

File Name:	**6020226**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:23:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 02:21 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	640 E	5.1 E
Methylene Chloride	35	0.34	74	0.73
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	230	2.5
2-Butanone (Methyl Ethyl Ketone)	59	0.96	740 E	12 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	20	0.20
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	79	1.0
Carbon Tetrachloride	3.1	0.030	6.2	0.060
Benzene	16	0.15	280	2.6
1,2-Dichloroethane	2.0	0.017	6.3	0.054
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	18	0.16
Toluene	4.0	0.046	1100 E	13 E
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	73	0.82
m,p-Xylene	2.2	0.028	240	3.1
o-Xylene	2.2	0.028	100	1.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10034 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1155WABASH-012312 Blank

Lab ID#: 1202020R1-03B

VOC BY PASSIVE SAMPLER

File Name:	**6020225**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:23:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 01:48 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	42	0.33
Methylene Chloride	35	0.34	170	1.7
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	28	0.30
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	2.8	0.028
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	180	1.7
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	21	0.24
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.6	0.074
m,p-Xylene	2.2	0.028	19	0.24
o-Xylene	2.2	0.028	4.4	0.055
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10034 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1152WABASH-012312

Lab ID#: 1202020R1-04A

VOC BY PASSIVE SAMPLER

File Name:	**6020228**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 9:06:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 03:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.019	Not Detected	Not Detected
Acetone	24	0.17	1000 E	7.3 E
Methylene Chloride	35	0.31	140	1.2
Methyl tert-butyl ether	18	0.17	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Hexane	18	0.17	240	2.3
2-Butanone (Methyl Ethyl Ketone)	59	0.86	260	3.8
cis-1,2-Dichloroethene	2.0	0.016	Not Detected	Not Detected
Chloroform	2.4	0.022	23	0.20
1,1,1-Trichloroethane	2.7	0.026	Not Detected	Not Detected
Cyclohexane	17	0.20	120	1.4
Carbon Tetrachloride	3.1	0.027	4.7	0.041
Benzene	16	0.14	290	2.5
1,2-Dichloroethane	2.0	0.016	16	0.12
Heptane	20	0.20	190	1.9
Trichloroethene	2.7	0.022	21	0.17
Toluene	4.0	0.041	740	7.6
Tetrachloroethene	4.0	0.036	20	0.19
Ethyl Benzene	2.2	0.022	120	1.2
m,p-Xylene	2.2	0.025	370	4.2
o-Xylene	2.2	0.025	160	1.8
1,1-Dichloroethane	2.0	0.014	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 11145 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1152WABASH-012312 Blank

Lab ID#: 1202020R1-04B

VOC BY PASSIVE SAMPLER

File Name:	**6020227**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 9:06:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 02:54 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.019	Not Detected	Not Detected
Acetone	24	0.17	40	0.29
Methylene Chloride	35	0.31	290	2.6
Methyl tert-butyl ether	18	0.17	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Hexane	18	0.17	31	0.30
2-Butanone (Methyl Ethyl Ketone)	59	0.86	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.016	Not Detected	Not Detected
Chloroform	2.4	0.022	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.026	Not Detected	Not Detected
Cyclohexane	17	0.20	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.027	Not Detected	Not Detected
Benzene	16	0.14	150	1.3
1,2-Dichloroethane	2.0	0.016	Not Detected	Not Detected
Heptane	20	0.20	Not Detected	Not Detected
Trichloroethene	2.7	0.022	Not Detected	Not Detected
Toluene	4.0	0.041	23	0.23
Tetrachloroethene	4.0	0.036	Not Detected	Not Detected
Ethyl Benzene	2.2	0.022	6.3	0.064
m,p-Xylene	2.2	0.025	13	0.15
o-Xylene	2.2	0.025	4.4	0.050
1,1-Dichloroethane	2.0	0.014	Not Detected	Not Detected

Temperature = 69.8F , duration time = 11145 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1311OHIO-012312

Lab ID#: 1202020R1-05A

VOC BY PASSIVE SAMPLER

File Name:	**6020230**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 04:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	860 E	7.0 E
Methylene Chloride	35	0.35	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	230	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.96	1400 E	24 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	72	0.73
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	130	1.6
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	300	2.8
1,2-Dichloroethane	2.0	0.017	73	0.63
Heptane	80	0.87	710	7.7
Trichloroethene	2.7	0.024	16	0.14
Toluene	16	0.18	4000 E	46 E
Tetrachloroethene	4.0	0.041	44	0.44
Ethyl Benzene	2.2	0.025	360	4.1
m,p-Xylene	2.2	0.028	1100 E	14 E
o-Xylene	2.2	0.028	270	3.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Heptane and Toluene were reported from file #6020321, analyzed on 2/3/12, with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10023 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1311OHIO-012312 Blank

Lab ID#: 1202020R1-05B

VOC BY PASSIVE SAMPLER

File Name:	**6020229**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 04:00 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	71	0.57
Methylene Chloride	35	0.35	560	5.5
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	28	0.30
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.6
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	23	0.27
Tetrachloroethene	4.0	0.041	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.8	0.077
m,p-Xylene	2.2	0.028	12	0.15
o-Xylene	2.2	0.028	4.4	0.055
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10023 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1154WABASH-012312

Lab ID#: 1202020R1-06A

VOC BY PASSIVE SAMPLER

File Name:	**6020232**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:26:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 05:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	110	0.82
Methylene Chloride	35	0.26	73	0.55
Methyl tert-butyl ether	18	0.15	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	240	1.9
2-Butanone (Methyl Ethyl Ketone)	59	0.39	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	3.9	0.033
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	79	0.56
Carbon Tetrachloride	3.1	0.024	4.1	0.032
Benzene	16	0.11	200	1.4
1,2-Dichloroethane	2.0	0.016	3.1	0.024
Heptane	20	0.16	75	0.59
Trichloroethene	2.7	0.020	7.7	0.057
Toluene	4.0	0.030	410	3.1
Tetrachloroethene	4.0	0.034	15	0.13
Ethyl Benzene	2.2	0.019	69	0.59
m,p-Xylene	2.2	0.019	220	1.9
o-Xylene	2.2	0.020	100	0.95
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10014 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1154WABASH-012312 Blank

Lab ID#: 1202020R1-06B

VOC BY PASSIVE SAMPLER

File Name:	**6020231**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 2:26:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 05:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	52	0.38
Methylene Chloride	35	0.26	600	4.5
Methyl tert-butyl ether	18	0.15	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	57	0.44
2-Butanone (Methyl Ethyl Ketone)	59	0.39	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	83	0.58
1,2-Dichloroethane	2.0	0.016	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	23	0.18
Tetrachloroethene	4.0	0.034	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	6.6	0.057
m,p-Xylene	2.2	0.019	9.3	0.081
o-Xylene	2.2	0.020	4.1	0.038
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10014 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1201E12TH-012312

Lab ID#: 1202020R1-07A

VOC BY PASSIVE SAMPLER

File Name:	**6020234**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 3:43:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 06:49 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	470	3.8
Methylene Chloride	35	0.34	66	0.65
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	240	3.8
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	10	0.10
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	4.5	0.044
Benzene	16	0.15	310	2.9
1,2-Dichloroethane	2.0	0.017	6.8	0.058
Heptane	20	0.22	120	1.3
Trichloroethene	2.7	0.024	13	0.12
Toluene	16	0.18	4600 E	52 E
Tetrachloroethene	4.0	0.040	18	0.18
Ethyl Benzene	2.2	0.025	160	1.8
m,p-Xylene	2.2	0.028	550	6.8
o-Xylene	2.2	0.027	210	2.6
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Toluene was reported from file #6020322, analyzed on 2/3/12, with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10073 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1201E12TH-012312 Blank

Lab ID#: 1202020R1-07B

VOC BY PASSIVE SAMPLER

File Name:	**6020233**	**Date of Extraction: NA**	**Date of Collection: 1/30/12 3:43:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 06:15 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	51	0.41
Methylene Chloride	35	0.34	460	4.5
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	59	0.62
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	2.5	0.025
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.1
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	27	0.31
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	9.3	0.10
m,p-Xylene	2.2	0.028	15	0.19
o-Xylene	2.2	0.027	5.3	0.066
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10073 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1040WABASH-012412

Lab ID#: 1202020R1-08A

VOC BY PASSIVE SAMPLER

File Name:	**6020236**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:24:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 07:54 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	810 E	6.6 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	300	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.96	880 E	14 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	140	1.4
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	73	0.96
Carbon Tetrachloride	3.1	0.030	8.0	0.078
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	18	0.16
Heptane	20	0.22	160	1.7
Trichloroethene	2.7	0.024	18	0.15
Toluene	4.0	0.046	770 E	8.8 E
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	73	0.82
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.028	86	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10045 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1040WABASH-012412 Blank

Lab ID#: 1202020R1-08B

VOC BY PASSIVE SAMPLER

File Name:	**6020235**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:24:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 07:22 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	84	0.68
Methylene Chloride	35	0.34	570	5.6
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	27	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	180	1.7
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	25	0.29
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.3	0.082
m,p-Xylene	2.2	0.028	9.9	0.12
o-Xylene	2.2	0.028	4.9	0.061
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10045 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1114WABASH-012412

Lab ID#: 1202020R1-09A

VOC BY PASSIVE SAMPLER

File Name:	**6020238**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 09:01 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1200 E	9.6 E
Methylene Chloride	35	0.35	43	0.42
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	160	1.7
2-Butanone (Methyl Ethyl Ketone)	59	0.96	1700 E	27 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	74	0.74
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	60	0.79
Carbon Tetrachloride	3.1	0.030	5.1	0.050
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	23	0.20
Heptane	20	0.22	110	1.1
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	480	5.5
Tetrachloroethene	4.0	0.041	21	0.21
Ethyl Benzene	2.2	0.025	67	0.75
m,p-Xylene	2.2	0.028	190	2.4
o-Xylene	2.2	0.028	72	0.90
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10029 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1114WABASH-012412 Blank

Lab ID#: 1202020R1-09B

VOC BY PASSIVE SAMPLER

File Name:	**6020237**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 08:28 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	57	0.46
Methylene Chloride	35	0.35	500	4.9
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	28	0.29
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	3.3	0.033
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	210	2.0
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	32	0.37
Tetrachloroethene	4.0	0.041	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	8.0	0.090
m,p-Xylene	2.2	0.028	44	0.55
o-Xylene	2.2	0.028	5.8	0.073
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10029 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1151OHIO-012412

Lab ID#: 1202020R1-10A

VOC BY PASSIVE SAMPLER

File Name:	**6020240**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:34:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 10:07 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	660 E	5.4 E
Methylene Chloride	35	0.35	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	510	5.4
2-Butanone (Methyl Ethyl Ketone)	59	0.96	850 E	14 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	80	0.80
1,1,1-Trichloroethane	2.7	0.029	2.7	0.029
Cyclohexane	17	0.22	200	2.7
Carbon Tetrachloride	3.1	0.030	8.1	0.079
Benzene	16	0.15	410	3.9
1,2-Dichloroethane	2.0	0.017	98	0.85
Heptane	20	0.22	200	2.2
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.046	1900 E	21 E
Tetrachloroethene	4.0	0.041	26	0.26
Ethyl Benzene	2.2	0.025	220	2.4
m,p-Xylene	2.2	0.028	820	10
o-Xylene	2.2	0.028	280	3.5
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10024 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1151OHIO-012412 Blank

Lab ID#: 1202020R1-10B

VOC BY PASSIVE SAMPLER

File Name:	**6020239**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:34:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 09:34 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	52	0.42
Methylene Chloride	35	0.35	500	5.0
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	30	0.31
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.6
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	22	0.26
Tetrachloroethene	4.0	0.041	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.4	0.084
m,p-Xylene	2.2	0.028	14	0.17
o-Xylene	2.2	0.028	4.6	0.058
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10024 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1147OHIO-012412

Lab ID#: 1202020R1-11A

VOC BY PASSIVE SAMPLER

File Name:	**6020242**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 3:25:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 11:14 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	790 E	6.4 E
Methylene Chloride	35	0.34	89	0.88
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	710 E	7.5 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	470	7.6
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	1800 E	18 E
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	350	4.6
Carbon Tetrachloride	3.1	0.030	19	0.18
Benzene	16	0.15	660 E	6.2 E
1,2-Dichloroethane	2.0	0.017	260	2.2
Heptane	80	0.86	370	4.0
Trichloroethene	2.7	0.024	17	0.15
Toluene	16	0.18	4000 E	46 E
Tetrachloroethene	4.0	0.040	28	0.29
Ethyl Benzene	2.2	0.025	530	6.0
m,p-Xylene	2.2	0.028	2100 E	26 E
o-Xylene	2.2	0.027	700	8.7
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Heptane and Toluene were reported from file #6020323, analyzed on 2/3/12, with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10069 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1147OHIO-012412 Blank

Lab ID#: 1202020R1-11B

VOC BY PASSIVE SAMPLER

File Name:	**6020241**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 3:25:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 10:41 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	48	0.38
Methylene Chloride	35	0.34	380	3.8
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	30	0.32
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	150	1.4
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	20	0.22
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.028	11	0.13
o-Xylene	2.2	0.027	4.6	0.057
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10069 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1145OHIO-012412

Lab ID#: 1202020R1-12A

VOC BY PASSIVE SAMPLER

File Name:	**6020244**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 3:24:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/12 12:20 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	2.6	0.027
Acetone	24	0.19	1400 E	12 E
Methylene Chloride	35	0.34	140	1.4
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	370	3.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	800 E	13 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	140	1.4
1,1,1-Trichloroethane	2.7	0.029	4.6	0.050
Cyclohexane	17	0.22	200	2.6
Carbon Tetrachloride	3.1	0.030	11	0.11
Benzene	16	0.15	290	2.8
1,2-Dichloroethane	2.0	0.017	46	0.40
Heptane	80	0.86	390	4.2
Trichloroethene	2.7	0.024	18	0.16
Toluene	16	0.18	3100 E	36 E
Tetrachloroethene	4.0	0.040	21	0.21
Ethyl Benzene	2.2	0.025	250	2.8
m,p-Xylene	2.2	0.028	830	10
o-Xylene	2.2	0.028	330	4.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Heptane and Toluene were reported from file #6020324, analyzed on 2/3/12, with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10061 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1145OHIO-012412 Blank

Lab ID#: 1202020R1-12B

VOC BY PASSIVE SAMPLER

File Name:	**6020243**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 3:24:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 11:47 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	83	0.66
Methylene Chloride	35	0.34	530	5.3
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	56	0.59
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	3.0	0.030
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	48	0.55
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	13	0.15
m,p-Xylene	2.2	0.028	25	0.31
o-Xylene	2.2	0.028	7.9	0.099
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10061 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1103OHIO-012412

Lab ID#: 1202020R1-13A

VOC BY PASSIVE SAMPLER

File Name:	**6020246**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/12 01:26 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	700 E	5.6 E
Methylene Chloride	35	0.35	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	340	3.6
2-Butanone (Methyl Ethyl Ketone)	59	0.96	540	8.7
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	210	2.1
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	120	1.6
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	22	0.19
Heptane	20	0.22	170	1.9
Trichloroethene	2.7	0.024	18	0.16
Toluene	4.0	0.046	1600 E	18 E
Tetrachloroethene	4.0	0.041	38	0.39
Ethyl Benzene	2.2	0.025	220	2.5
m,p-Xylene	2.2	0.028	840	10
o-Xylene	2.2	0.028	340	4.2
1,1-Dichloroethane	2.0	0.016	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 9988 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1103OHIO-012412 Blank

Lab ID#: 1202020R1-13B

VOC BY PASSIVE SAMPLER

File Name:	**6020245**	**Date of Extraction: NA**	**Date of Collection: 1/31/12 2:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/12 12:53 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	59	0.48
Methylene Chloride	35	0.35	470	4.7
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	50	0.54
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	24	0.28
Tetrachloroethene	4.0	0.041	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.7	0.087
m,p-Xylene	2.2	0.028	11	0.14
o-Xylene	2.2	0.028	5.1	0.064
1,1-Dichloroethane	2.0	0.016	Not Detected	Not Detected

Temperature = 69.8F , duration time = 9988 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202020R1-14A

VOC BY PASSIVE SAMPLER

File Name:	**6020220**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 10:22 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	Not Detected	Not Detected
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	Not Detected	Not Detected
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	Not Detected	Not Detected
m,p-Xylene	2.2	0.028	Not Detected	Not Detected
o-Xylene	2.2	0.027	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10073 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank High Split

Lab ID#: 1202020R1-15A

VOC BY PASSIVE SAMPLER

File Name:	**6020320**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**4.00**		**Date of Analysis: 2/3/12 12:26 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	5.2	0.030	Not Detected	Not Detected
1,1-Dichloroethene	8.0	0.083	Not Detected	Not Detected
Acetone	96	0.77	Not Detected	Not Detected
Methylene Chloride	140	1.4	Not Detected	Not Detected
Methyl tert-butyl ether	72	0.74	Not Detected	Not Detected
trans-1,2-Dichloroethene	8.0	0.079	Not Detected	Not Detected
Hexane	72	0.76	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	240	3.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	8.0	0.073	Not Detected	Not Detected
Chloroform	9.6	0.096	Not Detected	Not Detected
1,1,1-Trichloroethane	11	0.12	Not Detected	Not Detected
Cyclohexane	68	0.89	Not Detected	Not Detected
Carbon Tetrachloride	12	0.12	Not Detected	Not Detected
Benzene	64	0.61	Not Detected	Not Detected
1,2-Dichloroethane	8.0	0.069	Not Detected	Not Detected
Heptane	80	0.86	Not Detected	Not Detected
Trichloroethene	11	0.095	Not Detected	Not Detected
Toluene	16	0.18	Not Detected	Not Detected
Tetrachloroethene	16	0.16	Not Detected	Not Detected
Ethyl Benzene	8.8	0.099	Not Detected	Not Detected
m,p-Xylene	8.8	0.11	Not Detected	Not Detected
o-Xylene	8.8	0.11	Not Detected	Not Detected
1,1-Dichloroethane	8.0	0.062	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10073 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202020R1-16A

VOC BY PASSIVE SAMPLER

File Name:	**6020217**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 07:50 AM**

Compound	**%Recovery**
Vinyl Chloride	74
1,1-Dichloroethene	89
Acetone	93
Methylene Chloride	84
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	95
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	99
Chloroform	87
1,1,1-Trichloroethane	85
Cyclohexane	101
Carbon Tetrachloride	90
Benzene	89
1,2-Dichloroethane	83
Heptane	85
Trichloroethene	100
Toluene	95
Tetrachloroethene	101
Ethyl Benzene	102
m,p-Xylene	98
o-Xylene	104
1,1-Dichloroethane	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV High Split
Lab ID#: 1202020R1-17A
VOC BY PASSIVE SAMPLER

File Name:	**6020315**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**4.00**		**Date of Analysis: 2/3/12 09:07 AM**

Compound	%Recovery
Vinyl Chloride	68
1,1-Dichloroethene	82
Acetone	69
Methylene Chloride	77
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	93
Hexane	102
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	96
Chloroform	96
1,1,1-Trichloroethane	101
Cyclohexane	108
Carbon Tetrachloride	120
Benzene	88
1,2-Dichloroethane	91
Heptane	88
Trichloroethene	101
Toluene	96
Tetrachloroethene	105
Ethyl Benzene	101
m,p-Xylene	98
o-Xylene	105
1,1-Dichloroethane	90

Temperature = 32.0F , duration time = 0 minutes.
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1202020R1-18A
VOC BY PASSIVE SAMPLER

File Name:	**6020218**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 08:22 AM**

Compound	**%Recovery**
Vinyl Chloride	68
1,1-Dichloroethene	97
Acetone	76
Methylene Chloride	80
Methyl tert-butyl ether	73
trans-1,2-Dichloroethene	102
Hexane	92
2-Butanone (Methyl Ethyl Ketone)	78
cis-1,2-Dichloroethene	95
Chloroform	85
1,1,1-Trichloroethane	78
Cyclohexane	98
Carbon Tetrachloride	87
Benzene	84
1,2-Dichloroethane	80
Heptane	80
Trichloroethene	96
Toluene	88
Tetrachloroethene	93
Ethyl Benzene	91
m,p-Xylene	89
o-Xylene	95
1,1-Dichloroethane	88

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202020R1-18AA

VOC BY PASSIVE SAMPLER

File Name:	**6020219**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/12 09:54 AM**

Compound	**%Recovery**
Vinyl Chloride	72
1,1-Dichloroethene	101
Acetone	91
Methylene Chloride	83
Methyl tert-butyl ether	71
trans-1,2-Dichloroethene	106
Hexane	94
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	101
Chloroform	81
1,1,1-Trichloroethane	77
Cyclohexane	99
Carbon Tetrachloride	74
Benzene	89
1,2-Dichloroethane	80
Heptane	82
Trichloroethene	97
Toluene	90
Tetrachloroethene	93
Ethyl Benzene	92
m,p-Xylene	89
o-Xylene	93
1,1-Dichloroethane	90

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS High Split
Lab ID#: 1202020R1-19A
VOC BY PASSIVE SAMPLER

File Name:	**6020317**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**4.00**		**Date of Analysis: 2/3/12 10:27 AM**

Compound	**%Recovery**
Vinyl Chloride	78
1,1-Dichloroethene	100
Acetone	92
Methylene Chloride	81
Methyl tert-butyl ether	78
trans-1,2-Dichloroethene	107
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	85
cis-1,2-Dichloroethene	100
Chloroform	90
1,1,1-Trichloroethane	85
Cyclohexane	103
Carbon Tetrachloride	90
Benzene	91
1,2-Dichloroethane	84
Heptane	84
Trichloroethene	100
Toluene	90
Tetrachloroethene	95
Ethyl Benzene	94
m,p-Xylene	91
o-Xylene	95
1,1-Dichloroethane	91

Temperature = 32.0F , duration time = 0 minutes.
Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD High Split
Lab ID#: 1202020R1-19AA
VOC BY PASSIVE SAMPLER

File Name:	**6020318**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**4.00**		**Date of Analysis: 2/3/12 11:18 AM**

Compound	**%Recovery**
Vinyl Chloride	82
1,1-Dichloroethene	102
Acetone	112
Methylene Chloride	82
Methyl tert-butyl ether	76
trans-1,2-Dichloroethene	108
Hexane	98
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	101
Chloroform	86
1,1,1-Trichloroethane	85
Cyclohexane	105
Carbon Tetrachloride	78
Benzene	97
1,2-Dichloroethane	85
Heptane	86
Trichloroethene	101
Toluene	92
Tetrachloroethene	96
Ethyl Benzene	93
m,p-Xylene	90
o-Xylene	95
1,1-Dichloroethane	92

Temperature = 32.0F , duration time = 0 minutes.
Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	94	70-130

PASSIVE SAMPLE COLLECTION

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.

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

Project Manager: Kevin Rood (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith — Email: martichbj@cdmsmith.com, williamsmk@cdmsmith.com
Address: 345 Riverview, Ste 520 — City: Wichita — State: KS — Zip: 67203
Phone: 316-660-6200 — Fax: 316-264-3225

Project Info:
P.O. #:
Project #: 2396-88704
Project Name: NIC Site-wide VI

Turn Around Time: ☒ Normal ☐ Rush _____ specify

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	IAP-NIC-1105E12TH-012312		01/23/12	14:45	01/30/12	14:41	TO-17	☒	☐	☐	☐
02A	IAP-NIC-1247LOAABASH-012312		01/23/12	14:48	01/30/12	14:19	TO-17	☒	☐	☐	☐
03A	IAP-NIC-1155LOAABASH-012312		01/23/12	15:09	01/30/12	14:23	TO-17	☒	☐	☐	☐
04A	IAP-NIC-1152 LOAABASH-012312		01/23/12	15:21	01/31/12	09:06	TO-17	☒	☐	☐	☐
05A	IAP-NIC-1311OHIO-012312		01/23/12	15:30	01/30/12	14:33	TO-17	☒	☐	☐	☐
06A	IAP-NIC-1154LOAABASH-012312		01/23/12	15:32	01/30/12	14:26	TO-17 mk	☒	☒	☐	☐
07A	IAP-NIC-1201E12TH-012312		01/23/12	15:50	01/30/12	15:43	TO-17	☒	☐	☐	☐
08A	IAP-NIC-1040LOAABASH-012412		01/24/12	14:59	01/31/12	14:24	TO-17	☒	☐	☐	☐
09A	IAP-NIC-1114LOAABASH-012412		01/24/12	15:09	01/31/12	14:18	TO-17	☒	☐	☐	☐
10A	IAP-NIC-1151 OHIO-012412		01/24/12	15:30	01/31/12	14:34	TO-17	☒	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	1/31/12 1620	[signature] ATL	2.1.12 0850
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		NA	Good	Yes No None	1202020

PASSIVE SAMPLE COLLECTION

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.

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

Project Manager: Kevin Reed (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams (monica@odmsmith.com)
Company: ODM Smith Email: williamsmk@odmsmith.com
Address: 315 Riverview, Ste 520 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-264-3025

Project Info:
P.O. #:
Project #: 2395-88707
Project Name: NIC Site-wide VI

Turn Around Time: ☒ Normal ☐ Rush _____ specify

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
11A	IAP-NIC-1147OHIO-012412		01/24/12	15:36	01/31/12	15:25	TO-17	☒	☐	☐	☐
12A	IAP-NIC-1145OHIO-012412		01/24/12	15:43	01/31/12	15:24	TO-17	☒	☐	☐	☐
13A	IAP-NIC-1103OHIO-012412		01/24/12	16:03	01/31/12	14:31	TO-17	☒	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	1/31/12 1620	[signature]	2/1/12 0850
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No None	1202020

Air Toxics LTD.
Laboratory Services Since 1989

2/16/2012
Ms. Monica Williams
CDM
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-Wide VI
Project #: 2395-88707
Workorder #: 1202073

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 2/2/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202073

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-Wide VI
DATE RECEIVED:	02/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/16/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAS-NIC-1208EMP-012512	Modified TO-15	7.2 "Hg	5 psi
02A	IAS-NIC-1148INDIANA-012512	Modified TO-15	9.0 "Hg	5 psi
03A	IAS-NIC-1420ARNOLD-012512	Modified TO-15	9.0 "Hg	5 psi
04A	IAS-NIC-515MATH-013112	Modified TO-15	7.4 "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: Linda L. Freeman

Laboratory Director

DATE: 02/16/12

Certfication 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 Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
CDM
Workorder# 1202073

Four 6 Liter Summa Canister (100% Certified) samples were received on February 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.

Requirement	***TO-15***	***ATL Modifications***
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

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

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 LTD.
Laboratory Services Since 1989

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

Client Sample ID: IAS-NIC-1208EMP-012512

Lab ID#: 1202073-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.29	0.41	1.4	2.0
Chloromethane	0.29	0.36 J	0.60	0.75 J
Ethanol	1.5	84	2.8	160
Acetone	1.5	11	3.5	26
2-Propanol	1.5	1.6	3.6	4.0
Hexane	0.29	0.43	1.0	1.5
Benzene	0.29	0.30	0.94	0.95
Toluene	0.29	0.72	1.1	2.7
m,p-Xylene	0.29	0.37	1.3	1.6

Client Sample ID: IAS-NIC-1148INDIANA-012512

Lab ID#: 1202073-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.46	1.6	2.3
Chloromethane	0.32	0.41 J	0.66	0.85 J
Freon 11	0.32	0.33	1.8	1.9
Ethanol	1.6	100	3.0	190
Acetone	1.6	10	3.8	24
2-Propanol	1.6	30	3.9	75
Methylene Chloride	0.64	0.69	2.2	2.4
Hexane	0.32	0.49	1.1	1.7
Toluene	0.32	0.75	1.2	2.8
m,p-Xylene	0.32	0.38	1.4	1.6

Client Sample ID: IAS-NIC-1420ARNOLD-012512

Lab ID#: 1202073-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.44	1.6	2.2
Chloromethane	0.32	0.75 J	0.66	1.6 J

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

Client Sample ID: IAS-NIC-1420ARNOLD-012512

Lab ID#: 1202073-03A

Ethanol	1.6	120	3.0	240
Acetone	1.6	18	3.8	42
2-Propanol	1.6	280 E	3.9	690 E
Hexane	0.32	0.43	1.1	1.5
1,2-Dichloroethane	0.32	0.32	1.3	1.3
Heptane	0.32	0.36	1.3	1.5
Toluene	0.32	0.96	1.2	3.6
m,p-Xylene	0.32	0.49	1.4	2.1

Client Sample ID: IAS-NIC-515MATH-013112

Lab ID#: 1202073-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.22	0.43	1.1	2.1
Chloromethane	0.22	0.41 J	0.46	0.84 J
Freon 11	0.22	0.22	1.2	1.3
Ethanol	1.1	120 E	2.1	240 E
Acetone	1.1	13	2.6	32
2-Propanol	1.1	4.2	2.7	10
Hexane	0.22	1.2	0.78	4.2
2-Butanone (Methyl Ethyl Ketone)	1.1	1.2	3.3	3.5
Cyclohexane	0.22	0.38	0.76	1.3
Benzene	0.22	0.77	0.71	2.4
Heptane	0.22	0.65	0.91	2.7
Toluene	0.22	2.6	0.84	9.8
Ethyl Benzene	0.22	0.33	0.96	1.4
m,p-Xylene	0.22	1.1	0.96	4.7
o-Xylene	0.22	0.38	0.96	1.7
4-Ethyltoluene	0.22	0.29	1.1	1.4
1,2,4-Trimethylbenzene	0.22	0.32	1.1	1.6
1,4-Dichlorobenzene	0.22	0.58	1.3	3.5

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-1208EMP-012512

Lab ID#: 1202073-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020410**	**Date of Collection:**	**1/25/12 9:15:00 AM**
Dil. Factor:	**2.93**	**Date of Analysis:**	**2/5/12 11:06 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.29	0.41	1.4	2.0
Freon 114	0.29	Not Detected	2.0	Not Detected
Chloromethane	0.29	0.36 J	0.60	0.75 J
Vinyl Chloride	0.29	Not Detected	0.75	Not Detected
1,3-Butadiene	0.29	Not Detected	0.65	Not Detected
Bromomethane	0.29	Not Detected	1.1	Not Detected
Chloroethane	1.5	Not Detected	3.9	Not Detected
Freon 11	0.29	Not Detected	1.6	Not Detected
Ethanol	1.5	84	2.8	160
Freon 113	0.29	Not Detected	2.2	Not Detected
1,1-Dichloroethene	0.29	Not Detected	1.2	Not Detected
Acetone	1.5	11	3.5	26
2-Propanol	1.5	1.6	3.6	4.0
Carbon Disulfide	1.5	Not Detected	4.6	Not Detected
3-Chloropropene	1.5	Not Detected	4.6	Not Detected
Methylene Chloride	0.59	Not Detected	2.0	Not Detected
Methyl tert-butyl ether	0.29	Not Detected	1.0	Not Detected
trans-1,2-Dichloroethene	0.29	Not Detected	1.2	Not Detected
Hexane	0.29	0.43	1.0	1.5
1,1-Dichloroethane	0.29	Not Detected	1.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.5	Not Detected	4.3	Not Detected
cis-1,2-Dichloroethene	0.29	Not Detected	1.2	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.3	Not Detected
Chloroform	0.29	Not Detected	1.4	Not Detected
1,1,1-Trichloroethane	0.29	Not Detected	1.6	Not Detected
Cyclohexane	0.29	Not Detected	1.0	Not Detected
Carbon Tetrachloride	0.29	Not Detected	1.8	Not Detected
2,2,4-Trimethylpentane	1.5	Not Detected	6.8	Not Detected
Benzene	0.29	0.30	0.94	0.95
1,2-Dichloroethane	0.29	Not Detected	1.2	Not Detected
Heptane	0.29	Not Detected	1.2	Not Detected
Trichloroethene	0.29	Not Detected	1.6	Not Detected
1,2-Dichloropropane	0.29	Not Detected	1.4	Not Detected
1,4-Dioxane	0.29	Not Detected	1.0	Not Detected
Bromodichloromethane	0.29	Not Detected	2.0	Not Detected
cis-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
4-Methyl-2-pentanone	0.29	Not Detected	1.2	Not Detected
Toluene	0.29	0.72	1.1	2.7
trans-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
1,1,2-Trichloroethane	0.29	Not Detected	1.6	Not Detected
Tetrachloroethene	0.29	Not Detected	2.0	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-1208EMP-012512

Lab ID#: 1202073-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020410**	**Date of Collection:**	**1/25/12 9:15:00 AM**
Dil. Factor:	**2.93**	**Date of Analysis:**	**2/5/12 11:06 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1.5	Not Detected	6.0	Not Detected
Dibromochloromethane	0.29	Not Detected	2.5	Not Detected
1,2-Dibromoethane (EDB)	0.29	Not Detected	2.2	Not Detected
Chlorobenzene	0.29	Not Detected	1.3	Not Detected
Ethyl Benzene	0.29	Not Detected	1.3	Not Detected
m,p-Xylene	0.29	0.37	1.3	1.6
o-Xylene	0.29	Not Detected	1.3	Not Detected
Styrene	0.29	Not Detected	1.2	Not Detected
Bromoform	0.29	Not Detected	3.0	Not Detected
Cumene	0.29	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.29	Not Detected	2.0	Not Detected
Propylbenzene	0.29	Not Detected	1.4	Not Detected
4-Ethyltoluene	0.29	Not Detected	1.4	Not Detected
1,3,5-Trimethylbenzene	0.29	Not Detected	1.4	Not Detected
1,2,4-Trimethylbenzene	0.29	Not Detected	1.4	Not Detected
1,3-Dichlorobenzene	0.29	Not Detected	1.8	Not Detected
1,4-Dichlorobenzene	0.29	Not Detected	1.8	Not Detected
alpha-Chlorotoluene	0.29	Not Detected	1.5	Not Detected
1,2-Dichlorobenzene	0.29	Not Detected	1.8	Not Detected
1,2,4-Trichlorobenzene	1.5	Not Detected	11	Not Detected
Hexachlorobutadiene	1.5	Not Detected	16	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-1148INDIANA-012512

Lab ID#: 1202073-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020411**	**Date of Collection:**	**1/25/12 11:18:00 AM**
Dil. Factor:	**3.18**	**Date of Analysis:**	**2/5/12 11:42 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.46	1.6	2.3
Freon 114	0.32	Not Detected	2.2	Not Detected
Chloromethane	0.32	0.41 J	0.66	0.85 J
Vinyl Chloride	0.32	Not Detected	0.81	Not Detected
1,3-Butadiene	0.32	Not Detected	0.70	Not Detected
Bromomethane	0.32	Not Detected	1.2	Not Detected
Chloroethane	1.6	Not Detected	4.2	Not Detected
Freon 11	0.32	0.33	1.8	1.9
Ethanol	1.6	100	3.0	190
Freon 113	0.32	Not Detected	2.4	Not Detected
1,1-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Acetone	1.6	10	3.8	24
2-Propanol	1.6	30	3.9	75
Carbon Disulfide	1.6	Not Detected	5.0	Not Detected
3-Chloropropene	1.6	Not Detected	5.0	Not Detected
Methylene Chloride	0.64	0.69	2.2	2.4
Methyl tert-butyl ether	0.32	Not Detected	1.1	Not Detected
trans-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Hexane	0.32	0.49	1.1	1.7
1,1-Dichloroethane	0.32	Not Detected	1.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.6	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.7	Not Detected
Chloroform	0.32	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.32	Not Detected	1.7	Not Detected
Cyclohexane	0.32	Not Detected	1.1	Not Detected
Carbon Tetrachloride	0.32	Not Detected	2.0	Not Detected
2,2,4-Trimethylpentane	1.6	Not Detected	7.4	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.32	Not Detected	1.3	Not Detected
Heptane	0.32	Not Detected	1.3	Not Detected
Trichloroethene	0.32	Not Detected	1.7	Not Detected
1,2-Dichloropropane	0.32	Not Detected	1.5	Not Detected
1,4-Dioxane	0.32	Not Detected	1.1	Not Detected
Bromodichloromethane	0.32	Not Detected	2.1	Not Detected
cis-1,3-Dichloropropene	0.32	Not Detected	1.4	Not Detected
4-Methyl-2-pentanone	0.32	Not Detected	1.3	Not Detected
Toluene	0.32	0.75	1.2	2.8
trans-1,3-Dichloropropene	0.32	Not Detected	1.4	Not Detected
1,1,2-Trichloroethane	0.32	Not Detected	1.7	Not Detected
Tetrachloroethene	0.32	Not Detected	2.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-1148INDIANA-012512

Lab ID#: 1202073-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020411**	**Date of Collection:**	**1/25/12 11:18:00 AM**
Dil. Factor:	**3.18**	**Date of Analysis:**	**2/5/12 11:42 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1.6	Not Detected	6.5	Not Detected
Dibromochloromethane	0.32	Not Detected	2.7	Not Detected
1,2-Dibromoethane (EDB)	0.32	Not Detected	2.4	Not Detected
Chlorobenzene	0.32	Not Detected	1.5	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
m,p-Xylene	0.32	0.38	1.4	1.6
o-Xylene	0.32	Not Detected	1.4	Not Detected
Styrene	0.32	Not Detected	1.4	Not Detected
Bromoform	0.32	Not Detected	3.3	Not Detected
Cumene	0.32	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.32	Not Detected	2.2	Not Detected
Propylbenzene	0.32	Not Detected	1.6	Not Detected
4-Ethyltoluene	0.32	Not Detected	1.6	Not Detected
1,3,5-Trimethylbenzene	0.32	Not Detected	1.6	Not Detected
1,2,4-Trimethylbenzene	0.32	Not Detected	1.6	Not Detected
1,3-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
1,4-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
alpha-Chlorotoluene	0.32	Not Detected	1.6	Not Detected
1,2-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
1,2,4-Trichlorobenzene	1.6	Not Detected	12	Not Detected
Hexachlorobutadiene	1.6	Not Detected	17	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	88	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-1420ARNOLD-012512

Lab ID#: 1202073-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020412**	**Date of Collection:**	**1/25/12 2:04:00 PM**
Dil. Factor:	**3.18**	**Date of Analysis:**	**2/5/12 12:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.44	1.6	2.2
Freon 114	0.32	Not Detected	2.2	Not Detected
Chloromethane	0.32	0.75 J	0.66	1.6 J
Vinyl Chloride	0.32	Not Detected	0.81	Not Detected
1,3-Butadiene	0.32	Not Detected	0.70	Not Detected
Bromomethane	0.32	Not Detected	1.2	Not Detected
Chloroethane	1.6	Not Detected	4.2	Not Detected
Freon 11	0.32	Not Detected	1.8	Not Detected
Ethanol	1.6	120	3.0	240
Freon 113	0.32	Not Detected	2.4	Not Detected
1,1-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Acetone	1.6	18	3.8	42
2-Propanol	1.6	280 E	3.9	690 E
Carbon Disulfide	1.6	Not Detected	5.0	Not Detected
3-Chloropropene	1.6	Not Detected	5.0	Not Detected
Methylene Chloride	0.64	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.32	Not Detected	1.1	Not Detected
trans-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Hexane	0.32	0.43	1.1	1.5
1,1-Dichloroethane	0.32	Not Detected	1.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.6	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.7	Not Detected
Chloroform	0.32	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.32	Not Detected	1.7	Not Detected
Cyclohexane	0.32	Not Detected	1.1	Not Detected
Carbon Tetrachloride	0.32	Not Detected	2.0	Not Detected
2,2,4-Trimethylpentane	1.6	Not Detected	7.4	Not Detected
Benzene	0.32	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.32	0.32	1.3	1.3
Heptane	0.32	0.36	1.3	1.5
Trichloroethene	0.32	Not Detected	1.7	Not Detected
1,2-Dichloropropane	0.32	Not Detected	1.5	Not Detected
1,4-Dioxane	0.32	Not Detected	1.1	Not Detected
Bromodichloromethane	0.32	Not Detected	2.1	Not Detected
cis-1,3-Dichloropropene	0.32	Not Detected	1.4	Not Detected
4-Methyl-2-pentanone	0.32	Not Detected	1.3	Not Detected
Toluene	0.32	0.96	1.2	3.6
trans-1,3-Dichloropropene	0.32	Not Detected	1.4	Not Detected
1,1,2-Trichloroethane	0.32	Not Detected	1.7	Not Detected
Tetrachloroethene	0.32	Not Detected	2.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-1420ARNOLD-012512

Lab ID#: 1202073-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020412**	**Date of Collection:**	**1/25/12 2:04:00 PM**
Dil. Factor:	**3.18**	**Date of Analysis:**	**2/5/12 12:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1.6	Not Detected	6.5	Not Detected
Dibromochloromethane	0.32	Not Detected	2.7	Not Detected
1,2-Dibromoethane (EDB)	0.32	Not Detected	2.4	Not Detected
Chlorobenzene	0.32	Not Detected	1.5	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
m,p-Xylene	0.32	0.49	1.4	2.1
o-Xylene	0.32	Not Detected	1.4	Not Detected
Styrene	0.32	Not Detected	1.4	Not Detected
Bromoform	0.32	Not Detected	3.3	Not Detected
Cumene	0.32	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.32	Not Detected	2.2	Not Detected
Propylbenzene	0.32	Not Detected	1.6	Not Detected
4-Ethyltoluene	0.32	Not Detected	1.6	Not Detected
1,3,5-Trimethylbenzene	0.32	Not Detected	1.6	Not Detected
1,2,4-Trimethylbenzene	0.32	Not Detected	1.6	Not Detected
1,3-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
1,4-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
alpha-Chlorotoluene	0.32	Not Detected	1.6	Not Detected
1,2-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected
1,2,4-Trichlorobenzene	1.6	Not Detected	12	Not Detected
Hexachlorobutadiene	1.6	Not Detected	17	Not Detected

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	89	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-515MATH-013112

Lab ID#: 1202073-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020413**	**Date of Collection:**	**1/31/12 2:55:00 PM**
Dil. Factor:	**2.22**	**Date of Analysis:**	**2/5/12 12:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.22	0.43	1.1	2.1
Freon 114	0.22	Not Detected	1.6	Not Detected
Chloromethane	0.22	0.41 J	0.46	0.84 J
Vinyl Chloride	0.22	Not Detected	0.57	Not Detected
1,3-Butadiene	0.22	Not Detected	0.49	Not Detected
Bromomethane	0.22	Not Detected	0.86	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	0.22	0.22	1.2	1.3
Ethanol	1.1	120 E	2.1	240 E
Freon 113	0.22	Not Detected	1.7	Not Detected
1,1-Dichloroethene	0.22	Not Detected	0.88	Not Detected
Acetone	1.1	13	2.6	32
2-Propanol	1.1	4.2	2.7	10
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	1.1	Not Detected	3.5	Not Detected
Methylene Chloride	0.44	Not Detected	1.5	Not Detected
Methyl tert-butyl ether	0.22	Not Detected	0.80	Not Detected
trans-1,2-Dichloroethene	0.22	Not Detected	0.88	Not Detected
Hexane	0.22	1.2	0.78	4.2
1,1-Dichloroethane	0.22	Not Detected	0.90	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.2	3.3	3.5
cis-1,2-Dichloroethene	0.22	Not Detected	0.88	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	0.22	Not Detected	1.1	Not Detected
1,1,1-Trichloroethane	0.22	Not Detected	1.2	Not Detected
Cyclohexane	0.22	0.38	0.76	1.3
Carbon Tetrachloride	0.22	Not Detected	1.4	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	0.22	0.77	0.71	2.4
1,2-Dichloroethane	0.22	Not Detected	0.90	Not Detected
Heptane	0.22	0.65	0.91	2.7
Trichloroethene	0.22	Not Detected	1.2	Not Detected
1,2-Dichloropropane	0.22	Not Detected	1.0	Not Detected
1,4-Dioxane	0.22	Not Detected	0.80	Not Detected
Bromodichloromethane	0.22	Not Detected	1.5	Not Detected
cis-1,3-Dichloropropene	0.22	Not Detected	1.0	Not Detected
4-Methyl-2-pentanone	0.22	Not Detected	0.91	Not Detected
Toluene	0.22	2.6	0.84	9.8
trans-1,3-Dichloropropene	0.22	Not Detected	1.0	Not Detected
1,1,2-Trichloroethane	0.22	Not Detected	1.2	Not Detected
Tetrachloroethene	0.22	Not Detected	1.5	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-515MATH-013112

Lab ID#: 1202073-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020413**	**Date of Collection:**	**1/31/12 2:55:00 PM**
Dil. Factor:	**2.22**	**Date of Analysis:**	**2/5/12 12:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1.1	Not Detected	4.5	Not Detected
Dibromochloromethane	0.22	Not Detected	1.9	Not Detected
1,2-Dibromoethane (EDB)	0.22	Not Detected	1.7	Not Detected
Chlorobenzene	0.22	Not Detected	1.0	Not Detected
Ethyl Benzene	0.22	0.33	0.96	1.4
m,p-Xylene	0.22	1.1	0.96	4.7
o-Xylene	0.22	0.38	0.96	1.7
Styrene	0.22	Not Detected	0.94	Not Detected
Bromoform	0.22	Not Detected	2.3	Not Detected
Cumene	0.22	Not Detected	1.1	Not Detected
1,1,2,2-Tetrachloroethane	0.22	Not Detected	1.5	Not Detected
Propylbenzene	0.22	Not Detected	1.1	Not Detected
4-Ethyltoluene	0.22	0.29	1.1	1.4
1,3,5-Trimethylbenzene	0.22	Not Detected	1.1	Not Detected
1,2,4-Trimethylbenzene	0.22	0.32	1.1	1.6
1,3-Dichlorobenzene	0.22	Not Detected	1.3	Not Detected
1,4-Dichlorobenzene	0.22	0.58	1.3	3.5
alpha-Chlorotoluene	0.22	Not Detected	1.1	Not Detected
1,2-Dichlorobenzene	0.22	Not Detected	1.3	Not Detected
1,2,4-Trichlorobenzene	1.1	Not Detected	8.2	Not Detected
Hexachlorobutadiene	1.1	Not Detected	12	Not Detected

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	88	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202073-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020408**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 10:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected UJ	0.21	Not Detected UJ
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202073-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020408**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 10:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202073-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020403**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 06:22 PM**

Compound	%Recovery
Freon 12	95
Freon 114	89
Chloromethane	68 Q
Vinyl Chloride	87
1,3-Butadiene	88
Bromomethane	140 Q
Chloroethane	106
Freon 11	97
Ethanol	96
Freon 113	94
1,1-Dichloroethene	97
Acetone	105
2-Propanol	112
Carbon Disulfide	101
3-Chloropropene	108
Methylene Chloride	88
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	97
Hexane	98
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	98
Tetrahydrofuran	99
Chloroform	98
1,1,1-Trichloroethane	98
Cyclohexane	99
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	88
Benzene	96
1,2-Dichloroethane	98
Heptane	94
Trichloroethene	95
1,2-Dichloropropane	102
1,4-Dioxane	102
Bromodichloromethane	104
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	97
Toluene	95
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	99
Tetrachloroethene	91

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202073-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 06:22 PM**	

Compound	**%Recovery**
2-Hexanone	104
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	98
Chlorobenzene	93
Ethyl Benzene	94
m,p-Xylene	90
o-Xylene	92
Styrene	91
Bromoform	100
Cumene	90
1,1,2,2-Tetrachloroethane	96
Propylbenzene	87
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	85
1,4-Dichlorobenzene	78
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	87	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202073-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020404**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 07:04 PM**

Compound	%Recovery
Freon 12	99
Freon 114	92
Chloromethane	72
Vinyl Chloride	92
1,3-Butadiene	91
Bromomethane	145 Q
Chloroethane	109
Freon 11	99
Ethanol	93
Freon 113	96
1,1-Dichloroethene	108
Acetone	103
2-Propanol	100
Carbon Disulfide	127
3-Chloropropene	107
Methylene Chloride	88
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	111
Hexane	101
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	102
Tetrahydrofuran	99
Chloroform	104
1,1,1-Trichloroethane	102
Cyclohexane	105
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	84
Benzene	97
1,2-Dichloroethane	98
Heptane	95
Trichloroethene	96
1,2-Dichloropropane	102
1,4-Dioxane	101
Bromodichloromethane	103
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	94
Toluene	94
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	98
Tetrachloroethene	90

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202073-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020404**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 07:04 PM**

Compound	%Recovery
2-Hexanone	105
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	98
Chlorobenzene	94
Ethyl Benzene	95
m,p-Xylene	95
o-Xylene	94
Styrene	94
Bromoform	95
Cumene	95
1,1,2,2-Tetrachloroethane	97
Propylbenzene	92
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	79
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	79
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	86

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202073-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020405**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 08:09 PM**

Compound	%Recovery
Freon 12	96
Freon 114	90
Chloromethane	70
Vinyl Chloride	89
1,3-Butadiene	88
Bromomethane	133 Q
Chloroethane	108
Freon 11	97
Ethanol	91
Freon 113	93
1,1-Dichloroethene	102
Acetone	100
2-Propanol	95
Carbon Disulfide	124
3-Chloropropene	103
Methylene Chloride	86
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	108
Hexane	95
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	98
Tetrahydrofuran	95
Chloroform	98
1,1,1-Trichloroethane	99
Cyclohexane	100
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	77
Benzene	100
1,2-Dichloroethane	102
Heptane	95
Trichloroethene	99
1,2-Dichloropropane	104
1,4-Dioxane	103
Bromodichloromethane	107
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	95
Toluene	94
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	101
Tetrachloroethene	91

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202073-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a020405**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/12 08:09 PM**

Compound	%Recovery
2-Hexanone	106
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	102
Chlorobenzene	94
Ethyl Benzene	94
m,p-Xylene	93
o-Xylene	88
Styrene	88
Bromoform	98
Cumene	92
1,1,2,2-Tetrachloroethane	100
Propylbenzene	89
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	81
1,2,4-Trimethylbenzene	78
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	75
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	75
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	88	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

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

Project Manager Kevin Rood (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company CDM Smith Email martinbj@cdmsmith.com williamsmk@cdmsmith.com
Address 345 Riverview, Ste 520 City Wichita State KS Zip 67203
Phone 316-660-6700 Fax 316-264-3025

Project Info:
P.O. #
Project # 2395-88707
Project Name NIC Site-wide VI

Turn Around Time:
☒ Normal
☐ Rush
specify

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)
01A	IAS-NIC-1208 EMP-012512	5753	1/25/12	0915	TO-15	-29	-5		
02A	IAS-NIC-1148 INDIANA-012512	25310	1/25/12	1118	TO-15	-27.5	-8		
03A	IAS-NIC-1420 ARLINGTON-012512	5727	1/25/12	1404	TO-15	-29.5	-10		
04A	IAS-NIC-515 MATH-013112	12005	1/31/12	1453	TO-15	-29.5	-8		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/1/12 1602	[signature] ATL	2/2/12 0850
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 #
	Fedex		N/A	Good	Yes No None	1202013

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

2/21/2012
Ms. Monica Williams
CDM
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-wide VI
Project #: 2395-88707
Workorder #: 1202077R2

Dear Ms. Monica Williams

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

The data and associated QC analyzed by Passive Ultra III (TD) 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202077R2

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/17/2012		
DATE REISSUED:	02/21/2012		

FRACTION #	NAME	TEST
01A	IAP-NIC-1208EMP-012512	Passive Ultra III (TD)
01B	IAP-NIC-1208EMP-012512 Blank	Passive Ultra III (TD)
02A	IAP-NIC-1141STFRAN-012512	Passive Ultra III (TD)
02B	IAP-NIC-1141STFRAN-012512 Blank	Passive Ultra III (TD)
03A	OAP-NIC-1208EMP-012512	Passive Ultra III (TD)
03B	OAP-NIC-1208EMP-012512 Blank	Passive Ultra III (TD)
04A	IAP-NIC-1032OHIO-012512	Passive Ultra III (TD)
04B	IAP-NIC-1032OHIO-012512 Blank	Passive Ultra III (TD)
05A	IAP-NIC-1135EMP-012512	Passive Ultra III (TD)
05B	IAP-NIC-1135EMP-012512 Blank	Passive Ultra III (TD)
06A	IAP-NIC-1135EMPQ-012512	Passive Ultra III (TD)
06B	IAP-NIC-1135EMPQ-012512 Blank	Passive Ultra III (TD)
07A	OAP-NIC-1016WABASH-012512	Passive Ultra III (TD)
07B	OAP-NIC-1016WABASH-012512 Blank	Passive Ultra III (TD)
08A	IAP-NIC-1139INDIANA-012512	Passive Ultra III (TD)
08B	IAP-NIC-1139INDIANA-012512 Blank	Passive Ultra III (TD)
09A	IAP-NIC-1151INDIANA-012512	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202077R2

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/17/2012		
DATE REISSUED:	02/21/2012		

FRACTION #	NAME	TEST
09B	IAP-NIC-1151INDIANA-012512 Blank	Passive Ultra III (TD)
10A	IAP-NIC-1148INDIANA-012512	Passive Ultra III (TD)
10B	IAP-NIC-1148INDIANA-012512 Blank	Passive Ultra III (TD)
11A	OAP-NIC-EMMCADPARK-012512	Passive Ultra III (TD)
11B	OAP-NIC-EMMCADPARK-012512 Blank	Passive Ultra III (TD)
12A	IAP-NIC-1040INDIANA-012512	Passive Ultra III (TD)
12B	IAP-NIC-1040INDIANA-012512 Blank	Passive Ultra III (TD)
13A	IAP-NIC-1402ARNOLD-012512	Passive Ultra III (TD)
13B	IAP-NIC-1402ARNOLD-012512 Blank	Passive Ultra III (TD)
14A	IAP-NIC-1420ARNOLD-012512	Passive Ultra III (TD)
14B	IAP-NIC-1420ARNOLD-012512 Blank	Passive Ultra III (TD)
15A(cancelled)	IAP-NIC-1420ARNOLDQ-012512	Passive Ultra III (TD)
15B(cancelled)	IAP-NIC-1420ARNOLDQ-012512 Blank	Passive Ultra III (TD)
16A	OAP-NIC-1420ARNOLD-012512	Passive Ultra III (TD)
16B	OAP-NIC-1420ARNOLD-012512 Blank	Passive Ultra III (TD)
17A	IAP-NIC-1414ARNOLD-012512	Passive Ultra III (TD)
17B	IAP-NIC-1414ARNOLD-012512 Blank	Passive Ultra III (TD)
18A	IAP-NIC-1415ARNOLD-012512	Passive Ultra III (TD)
18B	IAP-NIC-1415ARNOLD-012512 Blank	Passive Ultra III (TD)
19A	Lab Blank	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202077R2

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/02/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/17/2012		
DATE REISSUED:	02/21/2012		

FRACTION #	NAME	TEST
20A	CCV	Passive Ultra III (TD)
21A	LCS	Passive Ultra III (TD)
21AA	LCSD	Passive Ultra III (TD)

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 02/21/12

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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
Passive TO-17 GC/MS
CDM
Workorder# 1202077R2

Eighteen Ultra III (TD) samples were received on February 02, 2012. The laboratory transferred the sample sorbent bed and the associated blank sorbent bed each to separate thermal desorption tubes. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

The Chain of Custody (COC) information for sample IAP-NIC-1420ARNOLDQ-012512 did not match the entry on the sample tag with regard to sample identification. The information on the sample tag was used to process and report the sample.

Analytical Notes

The actual exposure time and temperature were used to calculate sample concentrations and reporting limits. An exposure time of 10,296 minutes and a temperature of 70F was used to calculate concentrations and reporting limits for the associated Lab Blank.

Due to matrix interference, the recovery of surrogate 4-Bromofluorobenzene in sample IAP-NIC-1151INDIANA-012512 was outside the laboratory limits of 50-150%.

Due to a laboratory accident during the sample preparation step, sample IAP-NIC-1420ARNOLDQ-012512 was lost and could not be analyzed.

THE WORKORDER WAS REISSUED ON FEBRUARY 17, 2012 TO CORRECT IDENTIFICATION OF SAMPLE IAP-NIC-1032OHIO-012512 DUE TO LABORATORY TRANSCRIPTION ERROR AND TO CORRECT THE SUMMARY OF ADJUSTED CONCENTRATIONS FOR ALL SAMPLES IN THE FINAL REPORT.

THE WORKORDER WAS REISSUED ON FEBRUARY 20, 2012 TO REPORT 1,1-DICHLOROETHANE.

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 Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1208EMP-012512

Lab ID#: 1202077R2-01A/01B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.17	Not Detected	0.029	0.17	
1,2-Dichloroethane	0.065	Not Detected	0.017	0.065	
2-Butanone (Methyl Ethyl Ketone)	3.7	Not Detected	0.95	3.7	
Acetone	4.0	0.23	0.38	3.8	E
Benzene	2.6	1.2	0.30	1.4	
Carbon Tetrachloride	0.034	Not Detected	0.030	0.034	
Chloroform	0.17	Not Detected	0.024	0.17	
Cyclohexane	1.4	Not Detected	0.22	1.4	
Ethyl Benzene	0.73	0.058	0.050	0.67	
Heptane	1.2	Not Detected	0.22	1.2	
Hexane	2.9	0.28	0.38	2.6	
m,p-Xylene	2.7	0.095	0.056	2.6	
Methylene Chloride	0.44	1.4	0.68	Not Detected	
o-Xylene	1.0	0.042	0.054	0.96	
Tetrachloroethene	0.13	Not Detected	0.040	0.13	
Toluene	4.8	0.19	0.092	4.6	
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1141STFRAN-012512

Lab ID#: 1202077R2-02A/02B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.041	Not Detected	0.017	0.041	
2-Butanone (Methyl Ethyl Ketone)	2.3	Not Detected	0.95	2.3	
Acetone	2.9	0.53	0.38	2.4	
Benzene	2.8	1.7	0.30	1.1	
Chloroform	0.28	Not Detected	0.024	0.28	
Cyclohexane	1.0	Not Detected	0.22	1.0	
Ethyl Benzene	0.81	0.075	0.050	0.74	
Heptane	0.96	Not Detected	0.22	0.96	
Hexane	2.4	0.54	0.38	1.9	
m,p-Xylene	2.8	0.14	0.056	2.7	
Methylene Chloride	1.3	6.7	0.68	Not Detected	
o-Xylene	1.1	0.045	0.056	1.0	
Tetrachloroethene	0.13	Not Detected	0.040	0.13	
Toluene	5.7	0.30	0.092	5.4	
Trichloroethene	0.093	Not Detected	0.024	0.093	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1208EMP-012512

Lab ID#: 1202077R2-03A/03B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.022	Not Detected	0.015	0.022	
Acetone	0.86	0.30	0.34	0.56	
Benzene	1.4	0.74	0.22	0.66	
Chloroform	0.024	Not Detected	0.020	0.024	
Cyclohexane	0.54	Not Detected	0.12	0.54	
Ethyl Benzene	0.46	0.055	0.038	0.40	
Heptane	0.58	Not Detected	0.16	0.58	
Hexane	1.7	0.36	0.28	1.3	
m,p-Xylene	1.4	0.076	0.038	1.3	
Methylene Chloride	1.1	6.4	0.52	Not Detected	
o-Xylene	0.69	0.036	0.040	0.65	
Tetrachloroethene	0.091	Not Detected	0.033	0.091	
Toluene	2.8	0.16	0.060	2.6	
Trichloroethene	0.071	Not Detected	0.020	0.071	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1032OHIO-012512

Lab ID#: 1202077R2-04A/04B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.038	Not Detected	0.029	0.038	
1,2-Dichloroethane	1.1	Not Detected	0.017	1.1	
2-Butanone (Methyl Ethyl Ketone)	13	Not Detected	0.95	13	E
Acetone	6.3	0.46	0.38	5.8	E
Benzene	4.9	1.6	0.30	3.3	
Carbon Tetrachloride	0.17	Not Detected	0.030	0.17	
Chloroform	2.3	Not Detected	0.024	2.3	
Cyclohexane	1.7	Not Detected	0.22	1.7	
Ethyl Benzene	12	0.064	0.050	12	E
Heptane	1.9	Not Detected	0.22	1.9	
Hexane	2.7	0.33	0.38	2.4	
m,p-Xylene	40	0.14	0.054	40	E
Methylene Chloride	0.78	1.9	0.68	Not Detected	
o-Xylene	9.1	0.050	0.054	9.0	
Tetrachloroethene	0.16	Not Detected	0.040	0.16	
Toluene	15	0.21	0.090	15	E
Trichloroethene	0.14	Not Detected	0.024	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1135EMP-012512

Lab ID#: 1202077R2-05A/05B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.098	Not Detected	0.029	0.098	
1,2-Dichloroethane	0.066	Not Detected	0.017	0.066	
2-Butanone (Methyl Ethyl Ketone)	8.5	Not Detected	0.96	8.5	
Acetone	4.6	0.50	0.38	4.1	E
Benzene	2.2	0.83	0.30	1.4	
Carbon Tetrachloride	0.049	Not Detected	0.030	0.049	
Chloroform	0.24	Not Detected	0.024	0.24	
Cyclohexane	1.6	Not Detected	0.22	1.6	
Ethyl Benzene	0.78	0.070	0.050	0.71	
Heptane	3.0	Not Detected	0.22	3.0	
Hexane	3.3	0.55	0.38	2.8	
m,p-Xylene	2.6	0.14	0.056	2.5	
Methylene Chloride	Not Detected	2.9	0.68	Not Detected	
o-Xylene	1.1	0.051	0.056	1.0	
Tetrachloroethene	0.32	Not Detected	0.040	0.32	
Toluene	8.6	0.22	0.092	8.4	E
Trichloroethene	0.10	Not Detected	0.024	0.10	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1135EMPQ-012512

Lab ID#: 1202077R2-06A/06B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.093	Not Detected	0.029	0.093	
1,2-Dichloroethane	0.070	Not Detected	0.017	0.070	
2-Butanone (Methyl Ethyl Ketone)	6.5	Not Detected	0.96	6.5	
Acetone	5.1	0.39	0.38	4.7	E
Benzene	2.3	1.0	0.30	1.3	
Carbon Tetrachloride	0.048	Not Detected	0.030	0.048	
Chloroform	0.17	Not Detected	0.024	0.17	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	0.84	0.060	0.050	0.78	
Heptane	3.0	Not Detected	0.22	3.0	
Hexane	3.3	0.57	0.38	2.7	
m,p-Xylene	2.7	0.095	0.056	2.6	
Methylene Chloride	1.1	5.6	0.68	Not Detected	
o-Xylene	1.2	0.036	0.056	1.2	
Tetrachloroethene	0.32	Not Detected	0.040	0.32	
Toluene	8.7	0.22	0.092	8.5	E
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1016WABASH-012512

Lab ID#: 1202077R2-07A/07B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.018	Not Detected	0.015	0.018	
Acetone	0.68	0.22	0.34	0.46	
Benzene	1.2	0.64	0.22	0.56	
Cyclohexane	0.55	Not Detected	0.12	0.55	
Ethyl Benzene	0.48	0.041	0.038	0.44	
Heptane	0.60	Not Detected	0.16	0.60	
Hexane	1.7	0.22	0.28	1.5	
m,p-Xylene	1.6	0.078	0.038	1.5	
Methylene Chloride	0.53	2.4	0.52	Not Detected	
o-Xylene	0.81	0.028	0.040	0.78	
Tetrachloroethene	0.088	Not Detected	0.033	0.088	
Toluene	2.9	0.12	0.060	2.8	
Trichloroethene	0.049	Not Detected	0.020	0.049	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1139INDIANA-012512

Lab ID#: 1202077R2-08A/08B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.17	Not Detected	0.017	0.17	
2-Butanone (Methyl Ethyl Ketone)	1.0	Not Detected	0.95	1.0	
Acetone	2.3	0.36	0.38	1.9	
Benzene	3.9	1.4	0.30	2.5	
Carbon Tetrachloride	0.12	Not Detected	0.030	0.12	
Chloroform	1.2	Not Detected	0.024	1.2	
Cyclohexane	1.2	Not Detected	0.22	1.2	
Ethyl Benzene	0.72	0.071	0.050	0.65	
Heptane	1.1	Not Detected	0.22	1.1	
Hexane	2.6	0.34	0.38	2.3	
m,p-Xylene	2.4	0.20	0.056	2.2	
Methylene Chloride	0.92	2.0	0.68	Not Detected	
o-Xylene	0.98	0.050	0.056	0.93	
Tetrachloroethene	0.14	Not Detected	0.040	0.14	
Toluene	5.7	0.25	0.092	5.4	
Trichloroethene	0.14	Not Detected	0.024	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1151INDIANA-012512

Lab ID#: 1202077R2-09A/09B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.032	Not Detected	0.029	0.032	
1,2-Dichloroethane	0.19	Not Detected	0.017	0.19	
2-Butanone (Methyl Ethyl Ketone)	13	Not Detected	0.96	13	E
Acetone	17	0.54	0.38	16	E
Benzene	3.1	1.4	0.30	1.7	
Carbon Tetrachloride	0.19	Not Detected	0.030	0.19	
Chloroform	3.0	Not Detected	0.024	3.0	
Cyclohexane	1.3	Not Detected	0.22	1.3	
Ethyl Benzene	1.4	0.064	0.050	1.3	
Heptane	2.5	Not Detected	0.22	2.5	
Hexane	2.8	0.34	0.38	2.5	
m,p-Xylene	4.7	0.11	0.056	4.6	
Methylene Chloride	5.6	2.2	0.68	3.4	
o-Xylene	1.7	0.045	0.056	1.6	
Tetrachloroethene	10	Not Detected	0.040	10	
Toluene	22	0.21	0.092	22	E
Trichloroethene	0.13	Not Detected	0.024	0.13	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1148INDIANA-012512

Lab ID#: 1202077R2-10A/10B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	2.3	Not Detected	0.029	2.3	
1,1-Dichloroethene	0.023	Not Detected	0.020	0.023	
1,2-Dichloroethane	0.21	Not Detected	0.017	0.21	
2-Butanone (Methyl Ethyl Ketone)	7.2	Not Detected	0.94	7.2	
Acetone	3.2	0.44	0.38	2.8	
Benzene	3.0	2.3	0.30	0.70	
Carbon Tetrachloride	0.28	Not Detected	0.030	0.28	
Chloroform	0.44	Not Detected	0.024	0.44	
Cyclohexane	1.6	Not Detected	0.22	1.6	
Ethyl Benzene	0.77	0.10	0.048	0.67	
Heptane	1.3	Not Detected	0.21	1.3	
Hexane	3.2	0.50	0.38	2.7	
m,p-Xylene	2.4	0.18	0.054	2.2	
Methylene Chloride	2.4	4.0	0.68	Not Detected	
o-Xylene	1.0	0.064	0.054	0.94	
Tetrachloroethene	0.31	Not Detected	0.040	0.31	
Toluene	4.9	0.31	0.090	4.6	
Trichloroethene	0.13	Not Detected	0.024	0.13	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-EMMCADPARK-012512

Lab ID#: 1202077R2-11A/11B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.026	Not Detected	0.016	0.026	
Acetone	0.82	0.22	0.36	0.60	
Benzene	1.3	0.56	0.22	0.74	
Carbon Tetrachloride	0.028	Not Detected	0.025	0.028	
Cyclohexane	0.70	Not Detected	0.12	0.70	
Ethyl Benzene	0.57	0.033	0.038	0.54	
Heptane	0.74	Not Detected	0.16	0.74	
Hexane	2.1	0.24	0.28	1.9	
m,p-Xylene	1.9	0.084	0.038	1.8	
Methylene Chloride	1.5	2.9	0.54	Not Detected	
o-Xylene	0.83	0.025	0.042	0.80	
Tetrachloroethene	0.11	Not Detected	0.034	0.11	
Toluene	3.1	0.10	0.062	3.0	
Trichloroethene	0.049	Not Detected	0.020	0.049	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1040INDIANA-012512

Lab ID#: 1202077R2-12A/12B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.10	Not Detected	0.028	0.10	
1,2-Dichloroethane	0.21	Not Detected	0.017	0.21	
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	0.93	4.2	
Acetone	5.0	0.39	0.38	4.6	E
Benzene	2.4	1.3	0.30	1.1	
Carbon Tetrachloride	0.048	Not Detected	0.030	0.048	
Chloroform	0.47	Not Detected	0.023	0.47	
Cyclohexane	1.1	Not Detected	0.22	1.1	
Ethyl Benzene	1.1	0.074	0.048	1.0	
Heptane	1.0	Not Detected	0.21	1.0	
Hexane	2.4	0.56	0.38	1.8	
m,p-Xylene	3.9	0.14	0.054	3.8	
Methylene Chloride	0.46	4.5	0.68	Not Detected	
o-Xylene	1.7	0.049	0.054	1.6	
Tetrachloroethene	0.20	Not Detected	0.040	0.20	
Toluene	12	0.23	0.088	12	E
Trichloroethene	0.16	Not Detected	0.023	0.16	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1402ARNOLD-012512

Lab ID#: 1202077R2-13A/13B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.034	Not Detected	0.029	0.034	
1,2-Dichloroethane	0.51	Not Detected	0.017	0.51	
2-Butanone (Methyl Ethyl Ketone)	9.0	Not Detected	0.95	9.0	
Acetone	9.5	0.49	0.38	9.0	E
Benzene	3.3	1.5	0.30	1.8	
Carbon Tetrachloride	0.11	Not Detected	0.030	0.11	
Chloroform	4.6	Not Detected	0.024	4.6	
Cyclohexane	1.4	Not Detected	0.22	1.4	
Ethyl Benzene	1.1	0.066	0.050	1.0	
Heptane	1.7	Not Detected	0.22	1.7	
Hexane	3.0	0.39	0.38	2.6	
m,p-Xylene	4.0	0.090	0.056	3.9	
Methylene Chloride	Not Detected	2.8	0.68	Not Detected	
o-Xylene	1.4	0.040	0.054	1.4	
Tetrachloroethene	0.13	Not Detected	0.040	0.13	
Toluene	9.1	0.22	0.092	8.9	E
Trichloroethene	0.10	Not Detected	0.024	0.10	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1420ARNOLD-012512

Lab ID#: 1202077R2-14A/14B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.031	Not Detected	0.029	0.031	
1,2-Dichloroethane	0.93	Not Detected	0.017	0.93	
2-Butanone (Methyl Ethyl Ketone)	18	Not Detected	0.95	18	E
Acetone	7.4	0.66	0.38	6.7	E
Benzene	2.9	1.0	0.30	1.9	
Carbon Tetrachloride	0.12	Not Detected	0.030	0.12	
Chloroform	1.1	Not Detected	0.024	1.1	
Cyclohexane	1.4	Not Detected	0.22	1.4	
Ethyl Benzene	1.3	0.079	0.048	1.2	
Heptane	2.0	Not Detected	0.21	2.0	
Hexane	2.9	0.45	0.38	2.4	
m,p-Xylene	4.2	0.11	0.054	4.1	
Methylene Chloride	Not Detected	2.7	0.68	Not Detected	
o-Xylene	1.5	0.050	0.054	1.4	
Tetrachloroethene	0.13	Not Detected	0.040	0.13	
Toluene	7.2	0.25	0.090	7.0	
Trichloroethene	0.087	Not Detected	0.024	0.087	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1420ARNOLD-012512

Lab ID#: 1202077R2-16A/16B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.026	Not Detected	0.015	0.026	
Acetone	0.73	0.35	0.34	0.38	
Benzene	1.4	0.76	0.22	0.64	
Carbon Tetrachloride	0.026	Not Detected	0.024	0.026	
Cyclohexane	0.85	Not Detected	0.12	0.85	
Ethyl Benzene	0.80	0.061	0.038	0.74	
Heptane	0.93	Not Detected	0.16	0.93	
Hexane	2.6	0.29	0.28	2.3	
m,p-Xylene	2.6	0.070	0.038	2.5	
Methylene Chloride	Not Detected	0.74	0.52	Not Detected	
o-Xylene	1.1	0.037	0.040	1.1	
Tetrachloroethene	0.11	Not Detected	0.033	0.11	
Toluene	3.6	0.15	0.060	3.4	
Trichloroethene	0.048	Not Detected	0.020	0.048	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1414ARNOLD-012512

Lab ID#: 1202077R2-17A/17B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.031	Not Detected	0.029	0.031	
1,2-Dichloroethane	0.12	Not Detected	0.017	0.12	
2-Butanone (Methyl Ethyl Ketone)	8.3	Not Detected	0.95	8.3	
Acetone	8.1	0.34	0.38	7.8	E
Benzene	2.4	1.0	0.30	1.4	
Carbon Tetrachloride	0.11	Not Detected	0.030	0.11	
Chloroform	0.84	Not Detected	0.024	0.84	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	1.1	0.058	0.050	1.0	
Heptane	1.9	Not Detected	0.22	1.9	
Hexane	3.1	0.52	0.38	2.6	
m,p-Xylene	3.5	0.081	0.054	3.4	
Methylene Chloride	0.85	7.4	0.68	Not Detected	
o-Xylene	1.2	0.038	0.054	1.2	
Tetrachloroethene	0.12	Not Detected	0.040	0.12	
Toluene	7.1	0.20	0.090	6.9	
Trichloroethene	0.10	Not Detected	0.024	0.10	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1415ARNOLD-012512

Lab ID#: 1202077R2-18A/18B

Collection Date: 02/01/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.032	Not Detected	0.029	0.032	
1,2-Dichloroethane	0.18	Not Detected	0.017	0.18	
2-Butanone (Methyl Ethyl Ketone)	13	Not Detected	0.95	13	E
Acetone	8.9	0.50	0.38	8.4	E
Benzene	2.8	1.2	0.30	1.6	
Carbon Tetrachloride	0.11	Not Detected	0.030	0.11	
Chloroform	0.68	Not Detected	0.024	0.68	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	1.0	0.066	0.050	0.93	
Heptane	1.9	Not Detected	0.22	1.9	
Hexane	3.2	0.40	0.38	2.8	
m,p-Xylene	3.5	0.11	0.054	3.4	
Methylene Chloride	0.40	2.1	0.68	Not Detected	
o-Xylene	1.4	0.048	0.054	1.4	
Tetrachloroethene	0.15	Not Detected	0.040	0.15	
Toluene	6.2	0.20	0.090	6.0	
Trichloroethene	0.092	Not Detected	0.024	0.092	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1208EMP-012512

Lab ID#: 1202077R2-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	490 E	4.0 E
Methylene Chloride	35	0.34	45	0.44
Hexane	18	0.19	270	2.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	230	3.7
Chloroform	2.4	0.024	17	0.17
1,1,1-Trichloroethane	2.7	0.029	16	0.17
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	3.5	0.034
Benzene	16	0.15	270	2.6
1,2-Dichloroethane	2.0	0.017	7.6	0.065
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	420	4.8
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.025	65	0.73
m,p-Xylene	2.2	0.028	220	2.7
o-Xylene	2.2	0.027	82	1.0

Client Sample ID: IAP-NIC-1208EMP-012512 Blank

Lab ID#: 1202077R2-01B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	29	0.23
Methylene Chloride	35	0.34	140	1.4
Hexane	18	0.19	27	0.28
Benzene	16	0.15	130	1.2
Toluene	4.0	0.046	16	0.19
Ethyl Benzene	2.2	0.025	5.2	0.058
m,p-Xylene	2.2	0.028	7.6	0.095
o-Xylene	2.2	0.027	3.4	0.042

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1141STFRAN-012512

Lab ID#: 1202077R2-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	360	2.9
Methylene Chloride	35	0.34	130	1.3
Hexane	18	0.19	230	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.95	140	2.3
Chloroform	2.4	0.024	28	0.28
Cyclohexane	17	0.22	79	1.0
Benzene	16	0.15	290	2.8
1,2-Dichloroethane	2.0	0.017	4.8	0.041
Heptane	20	0.22	89	0.96
Trichloroethene	2.7	0.024	10	0.093
Toluene	4.0	0.046	500	5.7
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.025	72	0.81
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.028	88	1.1

Client Sample ID: IAP-NIC-1141STFRAN-012512 Blank

Lab ID#: 1202077R2-02B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	66	0.53
Methylene Chloride	35	0.34	680	6.7
Hexane	18	0.19	51	0.54
Benzene	16	0.15	180	1.7
Toluene	4.0	0.046	26	0.30
Ethyl Benzene	2.2	0.025	6.7	0.075
m,p-Xylene	2.2	0.028	11	0.14
o-Xylene	2.2	0.028	3.6	0.045

Client Sample ID: OAP-NIC-1208EMP-012512

Lab ID#: 1202077R2-03A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1208EMP-012512

Lab ID#: 1202077R2-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	120	0.86
Methylene Chloride	35	0.26	150	1.1
Hexane	18	0.14	220	1.7
Chloroform	2.4	0.020	2.8	0.024
Cyclohexane	17	0.12	77	0.54
Benzene	16	0.11	200	1.4
1,2-Dichloroethane	2.0	0.015	2.9	0.022
Heptane	20	0.16	73	0.58
Trichloroethene	2.7	0.020	9.6	0.071
Toluene	4.0	0.030	370	2.8
Tetrachloroethene	4.0	0.033	11	0.091
Ethyl Benzene	2.2	0.019	54	0.46
m,p-Xylene	2.2	0.019	170	1.4
o-Xylene	2.2	0.020	75	0.69

Client Sample ID: OAP-NIC-1208EMP-012512 Blank

Lab ID#: 1202077R2-03B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	42	0.30
Methylene Chloride	35	0.26	850 E	6.4 E
Hexane	18	0.14	47	0.36
Benzene	16	0.11	110	0.74
Toluene	4.0	0.030	22	0.16
Ethyl Benzene	2.2	0.019	6.5	0.055
m,p-Xylene	2.2	0.019	8.8	0.076
o-Xylene	2.2	0.020	3.9	0.036

Client Sample ID: IAP-NIC-1032OHIO-012512

Lab ID#: 1202077R2-04A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1032OHIO-012512

Lab ID#: 1202077R2-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	790 E	6.3 E
Methylene Chloride	35	0.34	80	0.78
Hexane	18	0.19	260	2.7
2-Butanone (Methyl Ethyl Ketone)	59	0.95	820 E	13 E
Chloroform	2.4	0.024	230	2.3
1,1,1-Trichloroethane	2.7	0.029	3.5	0.038
Cyclohexane	17	0.22	130	1.7
Carbon Tetrachloride	3.1	0.030	17	0.17
Benzene	16	0.15	520	4.9
1,2-Dichloroethane	2.0	0.017	130	1.1
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.045	1300 E	15 E
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	1100 E	12 E
m,p-Xylene	2.2	0.027	3200 E	40 E
o-Xylene	2.2	0.027	730	9.1

Client Sample ID: IAP-NIC-1032OHIO-012512 Blank

Lab ID#: 1202077R2-04B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	58	0.46
Methylene Chloride	35	0.34	190	1.9
Hexane	18	0.19	32	0.33
Benzene	16	0.15	170	1.6
Toluene	4.0	0.045	18	0.21
Ethyl Benzene	2.2	0.025	5.7	0.064
m,p-Xylene	2.2	0.027	11	0.14
o-Xylene	2.2	0.027	4.0	0.050

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1135EMP-012512

Lab ID#: 1202077R2-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	570 E	4.6 E
Hexane	18	0.19	310	3.3
2-Butanone (Methyl Ethyl Ketone)	59	0.96	530	8.5
Chloroform	2.4	0.024	24	0.24
1,1,1-Trichloroethane	2.7	0.029	9.1	0.098
Cyclohexane	17	0.22	120	1.6
Carbon Tetrachloride	3.1	0.030	5.0	0.049
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	7.7	0.066
Heptane	20	0.22	280	3.0
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	760 E	8.6 E
Tetrachloroethene	4.0	0.040	32	0.32
Ethyl Benzene	2.2	0.025	69	0.78
m,p-Xylene	2.2	0.028	210	2.6
o-Xylene	2.2	0.028	86	1.1

Client Sample ID: IAP-NIC-1135EMP-012512 Blank

Lab ID#: 1202077R2-05B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	62	0.50
Methylene Chloride	35	0.34	290	2.9
Hexane	18	0.19	52	0.55
Benzene	16	0.15	88	0.83
Toluene	4.0	0.046	19	0.22
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.028	11	0.14
o-Xylene	2.2	0.028	4.1	0.051

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1135EMPQ-012512

Lab ID#: 1202077R2-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	640 E	5.1 E
Methylene Chloride	35	0.34	110	1.1
Hexane	18	0.19	310	3.3
2-Butanone (Methyl Ethyl Ketone)	59	0.96	400	6.5
Chloroform	2.4	0.024	17	0.17
1,1,1-Trichloroethane	2.7	0.029	8.6	0.093
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	4.9	0.048
Benzene	16	0.15	240	2.3
1,2-Dichloroethane	2.0	0.017	8.1	0.070
Heptane	20	0.22	280	3.0
Trichloroethene	2.7	0.024	13	0.12
Toluene	4.0	0.046	760 E	8.7 E
Tetrachloroethene	4.0	0.040	32	0.32
Ethyl Benzene	2.2	0.025	75	0.84
m,p-Xylene	2.2	0.028	210	2.7
o-Xylene	2.2	0.028	98	1.2

Client Sample ID: IAP-NIC-1135EMPQ-012512 Blank

Lab ID#: 1202077R2-06B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	48	0.39
Methylene Chloride	35	0.34	570	5.6
Hexane	18	0.19	54	0.57
Benzene	16	0.15	100	1.0
Toluene	4.0	0.046	19	0.22
Ethyl Benzene	2.2	0.025	5.3	0.060
m,p-Xylene	2.2	0.028	7.6	0.095
o-Xylene	2.2	0.028	2.9	0.036

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1016WABASH-012512

Lab ID#: 1202077R2-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	95	0.68
Methylene Chloride	35	0.26	72	0.53
Hexane	18	0.14	220	1.7
Cyclohexane	17	0.12	79	0.55
Benzene	16	0.11	180	1.2
1,2-Dichloroethane	2.0	0.015	2.4	0.018
Heptane	20	0.16	76	0.60
Trichloroethene	2.7	0.020	6.7	0.049
Toluene	4.0	0.030	380	2.9
Tetrachloroethene	4.0	0.033	10	0.088
Ethyl Benzene	2.2	0.019	57	0.48
m,p-Xylene	2.2	0.019	190	1.6
o-Xylene	2.2	0.020	88	0.81

Client Sample ID: OAP-NIC-1016WABASH-012512 Blank

Lab ID#: 1202077R2-07B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	31	0.22
Methylene Chloride	35	0.26	320	2.4
Hexane	18	0.14	29	0.22
Benzene	16	0.11	93	0.64
Toluene	4.0	0.030	15	0.12
Ethyl Benzene	2.2	0.019	4.8	0.041
m,p-Xylene	2.2	0.019	9.0	0.078
o-Xylene	2.2	0.020	3.1	0.028

Client Sample ID: IAP-NIC-1139INDIANA-012512

Lab ID#: 1202077R2-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

Air Toxics LTD.
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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1139INDIANA-012512

Lab ID#: 1202077R2-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	280	2.3
Methylene Chloride	35	0.34	93	0.92
Hexane	18	0.19	240	2.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	65	1.0
Chloroform	2.4	0.024	120	1.2
Cyclohexane	17	0.22	91	1.2
Carbon Tetrachloride	3.1	0.030	12	0.12
Benzene	16	0.15	410	3.9
1,2-Dichloroethane	2.0	0.017	19	0.17
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	15	0.14
Toluene	4.0	0.046	500	5.7
Tetrachloroethene	4.0	0.040	14	0.14
Ethyl Benzene	2.2	0.025	64	0.72
m,p-Xylene	2.2	0.028	190	2.4
o-Xylene	2.2	0.028	78	0.98

Client Sample ID: IAP-NIC-1139INDIANA-012512 Blank

Lab ID#: 1202077R2-08B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	45	0.36
Methylene Chloride	35	0.34	210	2.0
Hexane	18	0.19	32	0.34
Benzene	16	0.15	150	1.4
Toluene	4.0	0.046	22	0.25
Ethyl Benzene	2.2	0.025	6.3	0.071
m,p-Xylene	2.2	0.028	16	0.20
o-Xylene	2.2	0.028	4.0	0.050

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1151INDIANA-012512

Lab ID#: 1202077R2-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	2100 E	17 E
Methylene Chloride	35	0.34	570	5.6
Hexane	18	0.19	260	2.8
2-Butanone (Methyl Ethyl Ketone)	59	0.96	800 E	13 E
Chloroform	2.4	0.024	300	3.0
1,1,1-Trichloroethane	2.7	0.029	3.0	0.032
Cyclohexane	17	0.22	97	1.3
Carbon Tetrachloride	3.1	0.030	19	0.19
Benzene	16	0.15	330	3.1
1,2-Dichloroethane	2.0	0.017	22	0.19
Heptane	20	0.22	230	2.5
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.046	1900 E	22 E
Tetrachloroethene	4.0	0.040	1000	10
Ethyl Benzene	2.2	0.025	120	1.4
m,p-Xylene	2.2	0.028	380	4.7
o-Xylene	2.2	0.028	130	1.7

Client Sample ID: IAP-NIC-1151INDIANA-012512 Blank

Lab ID#: 1202077R2-09B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	67	0.54
Methylene Chloride	35	0.34	230	2.2
Hexane	18	0.19	32	0.34
Benzene	16	0.15	150	1.4
Toluene	4.0	0.046	19	0.21
Ethyl Benzene	2.2	0.025	5.7	0.064
m,p-Xylene	2.2	0.028	8.5	0.11
o-Xylene	2.2	0.028	3.6	0.045

Air Toxics LTD.
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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1148INDIANA-012512

Lab ID#: 1202077R2-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1-Dichloroethene	2.0	0.020	2.2	0.023
Acetone	24	0.19	400	3.2
Methylene Chloride	35	0.34	250	2.4
Hexane	18	0.19	310	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.94	450	7.2
Chloroform	2.4	0.024	45	0.44
1,1,1-Trichloroethane	2.7	0.029	210	2.3
Cyclohexane	17	0.22	120	1.6
Carbon Tetrachloride	3.1	0.030	29	0.28
Benzene	16	0.15	320	3.0
1,2-Dichloroethane	2.0	0.017	25	0.21
Heptane	20	0.21	120	1.3
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.045	430	4.9
Tetrachloroethene	4.0	0.040	31	0.31
Ethyl Benzene	2.2	0.024	70	0.77
m,p-Xylene	2.2	0.027	190	2.4
o-Xylene	2.2	0.027	83	1.0

Client Sample ID: IAP-NIC-1148INDIANA-012512 Blank

Lab ID#: 1202077R2-10B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	56	0.44
Methylene Chloride	35	0.34	410	4.0
Hexane	18	0.19	48	0.50
Benzene	16	0.15	240	2.3
Toluene	4.0	0.045	28	0.31
Ethyl Benzene	2.2	0.024	9.2	0.10
m,p-Xylene	2.2	0.027	15	0.18
o-Xylene	2.2	0.027	5.2	0.064

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-EMMCADPARK-012512

Lab ID#: 1202077R2-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.18	110	0.82
Methylene Chloride	35	0.27	200	1.5
Hexane	18	0.14	270	2.1
Cyclohexane	17	0.12	98	0.70
Carbon Tetrachloride	3.1	0.025	3.5	0.028
Benzene	16	0.11	190	1.3
1,2-Dichloroethane	2.0	0.016	3.3	0.026
Heptane	20	0.16	92	0.74
Trichloroethene	2.7	0.020	6.5	0.049
Toluene	4.0	0.031	400	3.1
Tetrachloroethene	4.0	0.034	13	0.11
Ethyl Benzene	2.2	0.019	66	0.57
m,p-Xylene	2.2	0.019	220	1.9
o-Xylene	2.2	0.021	88	0.83

Client Sample ID: OAP-NIC-EMMCADPARK-012512 Blank

Lab ID#: 1202077R2-11B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.18	30	0.22
Methylene Chloride	35	0.27	380	2.9
Hexane	18	0.14	31	0.24
Benzene	16	0.11	80	0.56
Toluene	4.0	0.031	13	0.10
Ethyl Benzene	2.2	0.019	3.8	0.033
m,p-Xylene	2.2	0.019	9.5	0.084
o-Xylene	2.2	0.021	2.7	0.025

Client Sample ID: IAP-NIC-1040INDIANA-012512

Lab ID#: 1202077R2-12A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1040INDIANA-012512

Lab ID#: 1202077R2-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	640 E	5.0 E
Methylene Chloride	35	0.34	48	0.46
Hexane	18	0.19	240	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.93	260	4.2
Chloroform	2.4	0.023	48	0.47
1,1,1-Trichloroethane	2.7	0.028	9.5	0.10
Cyclohexane	17	0.22	88	1.1
Carbon Tetrachloride	3.1	0.030	5.1	0.048
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	25	0.21
Heptane	20	0.21	96	1.0
Trichloroethene	2.7	0.023	19	0.16
Toluene	4.0	0.044	1000 E	12 E
Tetrachloroethene	4.0	0.040	20	0.20
Ethyl Benzene	2.2	0.024	100	1.1
m,p-Xylene	2.2	0.027	320	3.9
o-Xylene	2.2	0.027	140	1.7

Client Sample ID: IAP-NIC-1040INDIANA-012512 Blank

Lab ID#: 1202077R2-12B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	49	0.39
Methylene Chloride	35	0.34	460	4.5
Hexane	18	0.19	54	0.56
Benzene	16	0.15	140	1.3
Toluene	4.0	0.044	21	0.23
Ethyl Benzene	2.2	0.024	6.7	0.074
m,p-Xylene	2.2	0.027	11	0.14
o-Xylene	2.2	0.027	4.0	0.049

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1402ARNOLD-012512

Lab ID#: 1202077R2-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1200 E	9.5 E
Hexane	18	0.19	280	3.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	560	9.0
Chloroform	2.4	0.024	460	4.6
1,1,1-Trichloroethane	2.7	0.029	3.2	0.034
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	11	0.11
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	60	0.51
Heptane	20	0.22	160	1.7
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	800 E	9.1 E
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.025	99	1.1
m,p-Xylene	2.2	0.028	320	4.0
o-Xylene	2.2	0.027	110	1.4

Client Sample ID: IAP-NIC-1402ARNOLD-012512 Blank

Lab ID#: 1202077R2-13B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	61	0.49
Methylene Chloride	35	0.34	290	2.8
Hexane	18	0.19	37	0.39
Benzene	16	0.15	160	1.5
Toluene	4.0	0.046	19	0.22
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.028	7.2	0.090
o-Xylene	2.2	0.027	3.2	0.040

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1420ARNOLD-012512

Lab ID#: 1202077R2-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	920 E	7.4 E
Hexane	18	0.19	280	2.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1100 E	18 E
Chloroform	2.4	0.024	110	1.1
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	12	0.12
Benzene	16	0.15	300	2.9
1,2-Dichloroethane	2.0	0.017	110	0.93
Heptane	20	0.21	180	2.0
Trichloroethene	2.7	0.024	9.9	0.087
Toluene	4.0	0.045	640	7.2
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.024	120	1.3
m,p-Xylene	2.2	0.027	340	4.2
o-Xylene	2.2	0.027	120	1.5

Client Sample ID: IAP-NIC-1420ARNOLD-012512 Blank

Lab ID#: 1202077R2-14B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	82	0.66
Methylene Chloride	35	0.34	270	2.7
Hexane	18	0.19	42	0.45
Benzene	16	0.15	110	1.0
Toluene	4.0	0.045	22	0.25
Ethyl Benzene	2.2	0.024	7.1	0.079
m,p-Xylene	2.2	0.027	9.2	0.11
o-Xylene	2.2	0.027	4.0	0.050

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1420ARNOLD-012512

Lab ID#: 1202077R2-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	100	0.73
Hexane	18	0.14	340	2.6
Cyclohexane	17	0.12	120	0.85
Carbon Tetrachloride	3.1	0.024	3.3	0.026
Benzene	16	0.11	210	1.4
1,2-Dichloroethane	2.0	0.015	3.4	0.026
Heptane	20	0.16	120	0.93
Trichloroethene	2.7	0.020	6.6	0.048
Toluene	4.0	0.030	480	3.6
Tetrachloroethene	4.0	0.033	13	0.11
Ethyl Benzene	2.2	0.019	94	0.80
m,p-Xylene	2.2	0.019	300	2.6
o-Xylene	2.2	0.020	120	1.1

Client Sample ID: OAP-NIC-1420ARNOLD-012512 Blank

Lab ID#: 1202077R2-16B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	49	0.35
Methylene Chloride	35	0.26	100	0.74
Hexane	18	0.14	38	0.29
Benzene	16	0.11	110	0.76
Toluene	4.0	0.030	20	0.15
Ethyl Benzene	2.2	0.019	7.2	0.061
m,p-Xylene	2.2	0.019	8.1	0.070
o-Xylene	2.2	0.020	4.0	0.037

Client Sample ID: IAP-NIC-1414ARNOLD-012512

Lab ID#: 1202077R2-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1414ARNOLD-012512

Lab ID#: 1202077R2-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1000 E	8.1 E
Methylene Chloride	35	0.34	87	0.85
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	510	8.3
Chloroform	2.4	0.024	85	0.84
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	14	0.12
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.045	630	7.1
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	96	1.1
m,p-Xylene	2.2	0.027	280	3.5
o-Xylene	2.2	0.027	98	1.2

Client Sample ID: IAP-NIC-1414ARNOLD-012512 Blank

Lab ID#: 1202077R2-17B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	43	0.34
Methylene Chloride	35	0.34	760 E	7.4 E
Hexane	18	0.19	49	0.52
Benzene	16	0.15	110	1.0
Toluene	4.0	0.045	17	0.20
Ethyl Benzene	2.2	0.025	5.2	0.058
m,p-Xylene	2.2	0.027	6.5	0.081
o-Xylene	2.2	0.027	3.1	0.038

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1415ARNOLD-012512

Lab ID#: 1202077R2-18A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1100 E	8.9 E
Methylene Chloride	35	0.34	41	0.40
Hexane	18	0.19	310	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	810 E	13 E
Chloroform	2.4	0.024	69	0.68
1,1,1-Trichloroethane	2.7	0.029	3.0	0.032
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	290	2.8
1,2-Dichloroethane	2.0	0.017	21	0.18
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	10	0.092
Toluene	4.0	0.045	550	6.2
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	90	1.0
m,p-Xylene	2.2	0.027	280	3.5
o-Xylene	2.2	0.027	110	1.4

Client Sample ID: IAP-NIC-1415ARNOLD-012512 Blank

Lab ID#: 1202077R2-18B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	62	0.50
Methylene Chloride	35	0.34	220	2.1
Hexane	18	0.19	38	0.40
Benzene	16	0.15	130	1.2
Toluene	4.0	0.045	18	0.20
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.027	8.6	0.11
o-Xylene	2.2	0.027	3.9	0.048

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1208EMP-012512

Lab ID#: 1202077R2-01A

VOC BY PASSIVE SAMPLER

File Name:	**6020622**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:08:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 09:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	490 E	4.0 E
Methylene Chloride	35	0.34	45	0.44
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	270	2.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	230	3.7
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	17	0.17
1,1,1-Trichloroethane	2.7	0.029	16	0.17
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	3.5	0.034
Benzene	16	0.15	270	2.6
1,2-Dichloroethane	2.0	0.017	7.6	0.065
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	420	4.8
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.025	65	0.73
m,p-Xylene	2.2	0.028	220	2.7
o-Xylene	2.2	0.027	82	1.0
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10078 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1208EMP-012512 Blank

Lab ID#: 1202077R2-01B

VOC BY PASSIVE SAMPLER

File Name:	**6020621**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:08:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 08:32 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	29	0.23
Methylene Chloride	35	0.34	140	1.4
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	27	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	130	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	16	0.19
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.2	0.058
m,p-Xylene	2.2	0.028	7.6	0.095
o-Xylene	2.2	0.027	3.4	0.042
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10078 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1141STFRAN-012512

Lab ID#: 1202077R2-02A

VOC BY PASSIVE SAMPLER

File Name:	**6020624**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:17:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 10:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	360	2.9
Methylene Chloride	35	0.34	130	1.3
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	230	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.95	140	2.3
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	28	0.28
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	79	1.0
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	290	2.8
1,2-Dichloroethane	2.0	0.017	4.8	0.041
Heptane	20	0.22	89	0.96
Trichloroethene	2.7	0.024	10	0.093
Toluene	4.0	0.046	500	5.7
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.025	72	0.81
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.028	88	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10057 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1141STFRAN-012512 Blank

Lab ID#: 1202077R2-02B

VOC BY PASSIVE SAMPLER

File Name:	**6020623**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:17:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 09:38 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	66	0.53
Methylene Chloride	35	0.34	680	6.7
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	51	0.54
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	180	1.7
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	26	0.30
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.7	0.075
m,p-Xylene	2.2	0.028	11	0.14
o-Xylene	2.2	0.028	3.6	0.045
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10057 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1208EMP-012512

Lab ID#: 1202077R2-03A

VOC BY PASSIVE SAMPLER

File Name:	**6020626**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 11:17 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	120	0.86
Methylene Chloride	35	0.26	150	1.1
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	220	1.7
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	2.8	0.024
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	77	0.54
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	200	1.4
1,2-Dichloroethane	2.0	0.015	2.9	0.022
Heptane	20	0.16	73	0.58
Trichloroethene	2.7	0.020	9.6	0.071
Toluene	4.0	0.030	370	2.8
Tetrachloroethene	4.0	0.033	11	0.091
Ethyl Benzene	2.2	0.019	54	0.46
m,p-Xylene	2.2	0.019	170	1.4
o-Xylene	2.2	0.020	75	0.69
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 10069 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1208EMP-012512 Blank

Lab ID#: 1202077R2-03B

VOC BY PASSIVE SAMPLER

File Name:	**6020625**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 10:44 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	42	0.30
Methylene Chloride	35	0.26	850 E	6.4 E
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	47	0.36
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	110	0.74
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	22	0.16
Tetrachloroethene	4.0	0.033	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	6.5	0.055
m,p-Xylene	2.2	0.019	8.8	0.076
o-Xylene	2.2	0.020	3.9	0.036
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
E = Exceeds instrument calibration range.

Temperature = 42.8F , duration time = 10069 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1032OHIO-012512

Lab ID#: 1202077R2-04A

VOC BY PASSIVE SAMPLER

File Name:	**6020628**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:16:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 12:23 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	790 E	6.3 E
Methylene Chloride	35	0.34	80	0.78
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	260	2.7
2-Butanone (Methyl Ethyl Ketone)	59	0.95	820 E	13 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	230	2.3
1,1,1-Trichloroethane	2.7	0.029	3.5	0.038
Cyclohexane	17	0.22	130	1.7
Carbon Tetrachloride	3.1	0.030	17	0.17
Benzene	16	0.15	520	4.9
1,2-Dichloroethane	2.0	0.017	130	1.1
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.045	1300 E	15 E
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	1100 E	12 E
m,p-Xylene	2.2	0.027	3200 E	40 E
o-Xylene	2.2	0.027	730	9.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10106 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1032OHIO-012512 Blank

Lab ID#: 1202077R2-04B

VOC BY PASSIVE SAMPLER

File Name:	**6020627**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:16:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 11:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	58	0.46
Methylene Chloride	35	0.34	190	1.9
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	32	0.33
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	170	1.6
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	18	0.21
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.7	0.064
m,p-Xylene	2.2	0.027	11	0.14
o-Xylene	2.2	0.027	4.0	0.050
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10106 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1135EMP-012512

Lab ID#: 1202077R2-05A

VOC BY PASSIVE SAMPLER

File Name:	**6020630**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:22:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 01:28 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	570 E	4.6 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	310	3.3
2-Butanone (Methyl Ethyl Ketone)	59	0.96	530	8.5
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	24	0.24
1,1,1-Trichloroethane	2.7	0.029	9.1	0.098
Cyclohexane	17	0.22	120	1.6
Carbon Tetrachloride	3.1	0.030	5.0	0.049
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	7.7	0.066
Heptane	20	0.22	280	3.0
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	760 E	8.6 E
Tetrachloroethene	4.0	0.040	32	0.32
Ethyl Benzene	2.2	0.025	69	0.78
m,p-Xylene	2.2	0.028	210	2.6
o-Xylene	2.2	0.028	86	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10042 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1135EMP-012512 Blank

Lab ID#: 1202077R2-05B

VOC BY PASSIVE SAMPLER

File Name:	**6020629**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:22:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 12:55 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	62	0.50
Methylene Chloride	35	0.34	290	2.9
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	52	0.55
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	88	0.83
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	19	0.22
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.028	11	0.14
o-Xylene	2.2	0.028	4.1	0.051
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10042 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1135EMPQ-012512

Lab ID#: 1202077R2-06A

VOC BY PASSIVE SAMPLER

File Name:	**6020632**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:22:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 02:34 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	640 E	5.1 E
Methylene Chloride	35	0.34	110	1.1
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	310	3.3
2-Butanone (Methyl Ethyl Ketone)	59	0.96	400	6.5
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	17	0.17
1,1,1-Trichloroethane	2.7	0.029	8.6	0.093
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	4.9	0.048
Benzene	16	0.15	240	2.3
1,2-Dichloroethane	2.0	0.017	8.1	0.070
Heptane	20	0.22	280	3.0
Trichloroethene	2.7	0.024	13	0.12
Toluene	4.0	0.046	760 E	8.7 E
Tetrachloroethene	4.0	0.040	32	0.32
Ethyl Benzene	2.2	0.025	75	0.84
m,p-Xylene	2.2	0.028	210	2.7
o-Xylene	2.2	0.028	98	1.2
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10042 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1135EMPQ-012512 Blank

Lab ID#: 1202077R2-06B

VOC BY PASSIVE SAMPLER

File Name:	**6020631**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:22:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 02:02 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	48	0.39
Methylene Chloride	35	0.34	570	5.6
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	54	0.57
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	100	1.0
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	19	0.22
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.3	0.060
m,p-Xylene	2.2	0.028	7.6	0.095
o-Xylene	2.2	0.028	2.9	0.036
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10042 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1016WABASH-012512

Lab ID#: 1202077R2-07A

VOC BY PASSIVE SAMPLER

File Name:	**6020634**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:46:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 03:40 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	95	0.68
Methylene Chloride	35	0.26	72	0.53
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	220	1.7
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	79	0.55
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	180	1.2
1,2-Dichloroethane	2.0	0.015	2.4	0.018
Heptane	20	0.16	76	0.60
Trichloroethene	2.7	0.020	6.7	0.049
Toluene	4.0	0.030	380	2.9
Tetrachloroethene	4.0	0.033	10	0.088
Ethyl Benzene	2.2	0.019	57	0.48
m,p-Xylene	2.2	0.019	190	1.6
o-Xylene	2.2	0.020	88	0.81
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 10104 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1016WABASH-012512 Blank

Lab ID#: 1202077R2-07B

VOC BY PASSIVE SAMPLER

File Name:	**6020633**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:46:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 03:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	31	0.22
Methylene Chloride	35	0.26	320	2.4
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	29	0.22
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	93	0.64
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	15	0.12
Tetrachloroethene	4.0	0.033	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	4.8	0.041
m,p-Xylene	2.2	0.019	9.0	0.078
o-Xylene	2.2	0.020	3.1	0.028
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 10104 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1139INDIANA-012512

Lab ID#: 1202077R2-08A

VOC BY PASSIVE SAMPLER

File Name:	**6020636**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:06:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 04:45 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	280	2.3
Methylene Chloride	35	0.34	93	0.92
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	240	2.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	65	1.0
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	120	1.2
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	91	1.2
Carbon Tetrachloride	3.1	0.030	12	0.12
Benzene	16	0.15	410	3.9
1,2-Dichloroethane	2.0	0.017	19	0.17
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	15	0.14
Toluene	4.0	0.046	500	5.7
Tetrachloroethene	4.0	0.040	14	0.14
Ethyl Benzene	2.2	0.025	64	0.72
m,p-Xylene	2.2	0.028	190	2.4
o-Xylene	2.2	0.028	78	0.98
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10057 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1139INDIANA-012512 Blank

Lab ID#: 1202077R2-08B

VOC BY PASSIVE SAMPLER

File Name:	**6020635**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:06:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 04:12 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	45	0.36
Methylene Chloride	35	0.34	210	2.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	32	0.34
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	150	1.4
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	22	0.25
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.3	0.071
m,p-Xylene	2.2	0.028	16	0.20
o-Xylene	2.2	0.028	4.0	0.050
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10057 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1151INDIANA-012512

Lab ID#: 1202077R2-09A

VOC BY PASSIVE SAMPLER

File Name:	**6020638**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:09:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 05:51 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	2100 E	17 E
Methylene Chloride	35	0.34	570	5.6
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	260	2.8
2-Butanone (Methyl Ethyl Ketone)	59	0.96	800 E	13 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	300	3.0
1,1,1-Trichloroethane	2.7	0.029	3.0	0.032
Cyclohexane	17	0.22	97	1.3
Carbon Tetrachloride	3.1	0.030	19	0.19
Benzene	16	0.15	330	3.1
1,2-Dichloroethane	2.0	0.017	22	0.19
Heptane	20	0.22	230	2.5
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.046	1900 E	22 E
Tetrachloroethene	4.0	0.040	1000	10
Ethyl Benzene	2.2	0.025	120	1.4
m,p-Xylene	2.2	0.028	380	4.7
o-Xylene	2.2	0.028	130	1.7
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits.

Temperature = 69.8F , duration time = 10049 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	144 Q	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1151INDIANA-012512 Blank

Lab ID#: 1202077R2-09B

VOC BY PASSIVE SAMPLER

File Name:	**6020637**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:09:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 05:18 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	67	0.54
Methylene Chloride	35	0.34	230	2.2
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	32	0.34
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	150	1.4
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	19	0.21
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.7	0.064
m,p-Xylene	2.2	0.028	8.5	0.11
o-Xylene	2.2	0.028	3.6	0.045
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10049 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1148INDIANA-012512

Lab ID#: 1202077R2-10A

VOC BY PASSIVE SAMPLER

File Name:	**6020640**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:12:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 06:56 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.020	2.2	0.023
Acetone	24	0.19	400	3.2
Methylene Chloride	35	0.34	250	2.4
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	310	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.94	450	7.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	45	0.44
1,1,1-Trichloroethane	2.7	0.029	210	2.3
Cyclohexane	17	0.22	120	1.6
Carbon Tetrachloride	3.1	0.030	29	0.28
Benzene	16	0.15	320	3.0
1,2-Dichloroethane	2.0	0.017	25	0.21
Heptane	20	0.21	120	1.3
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.045	430	4.9
Tetrachloroethene	4.0	0.040	31	0.31
Ethyl Benzene	2.2	0.024	70	0.77
m,p-Xylene	2.2	0.027	190	2.4
o-Xylene	2.2	0.027	83	1.0
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 75.2F , duration time = 10028 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1148INDIANA-012512 Blank

Lab ID#: 1202077R2-10B

VOC BY PASSIVE SAMPLER

File Name:	**6020639**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 10:12:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 06:23 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Acetone	24	0.19	56	0.44
Methylene Chloride	35	0.34	410	4.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	48	0.50
2-Butanone (Methyl Ethyl Ketone)	59	0.94	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	240	2.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.21	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	28	0.31
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.024	9.2	0.10
m,p-Xylene	2.2	0.027	15	0.18
o-Xylene	2.2	0.027	5.2	0.064
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 75.2F , duration time = 10028 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-EMMCADPARK-012512

Lab ID#: 1202077R2-11A

VOC BY PASSIVE SAMPLER

File Name:	**6020642**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:40:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 08:02 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0069	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.18	110	0.82
Methylene Chloride	35	0.27	200	1.5
Methyl tert-butyl ether	18	0.15	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	270	2.1
2-Butanone (Methyl Ethyl Ketone)	59	0.39	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.021	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	98	0.70
Carbon Tetrachloride	3.1	0.025	3.5	0.028
Benzene	16	0.11	190	1.3
1,2-Dichloroethane	2.0	0.016	3.3	0.026
Heptane	20	0.16	92	0.74
Trichloroethene	2.7	0.020	6.5	0.049
Toluene	4.0	0.031	400	3.1
Tetrachloroethene	4.0	0.034	13	0.11
Ethyl Benzene	2.2	0.019	66	0.57
m,p-Xylene	2.2	0.019	220	1.9
o-Xylene	2.2	0.021	88	0.83
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 9853 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-EMMCADPARK-012512 Blank

Lab ID#: 1202077R2-11B

VOC BY PASSIVE SAMPLER

File Name:	**6020641**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 9:40:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 07:29 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0069	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.18	30	0.22
Methylene Chloride	35	0.27	380	2.9
Methyl tert-butyl ether	18	0.15	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	31	0.24
2-Butanone (Methyl Ethyl Ketone)	59	0.39	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.021	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.025	Not Detected	Not Detected
Benzene	16	0.11	80	0.56
1,2-Dichloroethane	2.0	0.016	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.031	13	0.10
Tetrachloroethene	4.0	0.034	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	3.8	0.033
m,p-Xylene	2.2	0.019	9.5	0.084
o-Xylene	2.2	0.021	2.7	0.025
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 9853 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1040INDIANA-012512

Lab ID#: 1202077R2-12A

VOC BY PASSIVE SAMPLER

File Name:	**6020644**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 1:47:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 09:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0074	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Acetone	24	0.19	640 E	5.0 E
Methylene Chloride	35	0.34	48	0.46
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.019	Not Detected	Not Detected
Hexane	18	0.19	240	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.93	260	4.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.023	48	0.47
1,1,1-Trichloroethane	2.7	0.028	9.5	0.10
Cyclohexane	17	0.22	88	1.1
Carbon Tetrachloride	3.1	0.030	5.1	0.048
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	25	0.21
Heptane	20	0.21	96	1.0
Trichloroethene	2.7	0.023	19	0.16
Toluene	4.0	0.044	1000 E	12 E
Tetrachloroethene	4.0	0.040	20	0.20
Ethyl Benzene	2.2	0.024	100	1.1
m,p-Xylene	2.2	0.027	320	3.9
o-Xylene	2.2	0.027	140	1.7
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10296 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1040INDIANA-012512 Blank

Lab ID#: 1202077R2-12B

VOC BY PASSIVE SAMPLER

File Name:	**6020643**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 1:47:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 08:35 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0074	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Acetone	24	0.19	49	0.39
Methylene Chloride	35	0.34	460	4.5
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.019	Not Detected	Not Detected
Hexane	18	0.19	54	0.56
2-Butanone (Methyl Ethyl Ketone)	59	0.93	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.023	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.028	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.21	Not Detected	Not Detected
Trichloroethene	2.7	0.023	Not Detected	Not Detected
Toluene	4.0	0.044	21	0.23
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.024	6.7	0.074
m,p-Xylene	2.2	0.027	11	0.14
o-Xylene	2.2	0.027	4.0	0.049
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10296 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1402ARNOLD-012512

Lab ID#: 1202077R2-13A

VOC BY PASSIVE SAMPLER

File Name:	**6020646**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:17:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 10:13 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1200 E	9.5 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	280	3.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	560	9.0
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	460	4.6
1,1,1-Trichloroethane	2.7	0.029	3.2	0.034
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	11	0.11
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	60	0.51
Heptane	20	0.22	160	1.7
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	800 E	9.1 E
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.025	99	1.1
m,p-Xylene	2.2	0.028	320	4.0
o-Xylene	2.2	0.027	110	1.4
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10077 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1402ARNOLD-012512 Blank

Lab ID#: 1202077R2-13B

VOC BY PASSIVE SAMPLER

File Name:	**6020645**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:17:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 09:40 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	61	0.49
Methylene Chloride	35	0.34	290	2.8
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	37	0.39
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.5
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	19	0.22
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.028	7.2	0.090
o-Xylene	2.2	0.027	3.2	0.040
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10077 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1420ARNOLD-012512

Lab ID#: 1202077R2-14A

VOC BY PASSIVE SAMPLER

File Name:	**6020648**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:39:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 11:18 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	920 E	7.4 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	280	2.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1100 E	18 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	110	1.1
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	12	0.12
Benzene	16	0.15	300	2.9
1,2-Dichloroethane	2.0	0.017	110	0.93
Heptane	20	0.21	180	2.0
Trichloroethene	2.7	0.024	9.9	0.087
Toluene	4.0	0.045	640	7.2
Tetrachloroethene	4.0	0.040	13	0.13
Ethyl Benzene	2.2	0.024	120	1.3
m,p-Xylene	2.2	0.027	340	4.2
o-Xylene	2.2	0.027	120	1.5
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10121 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1420ARNOLD-012512 Blank

Lab ID#: 1202077R2-14B

VOC BY PASSIVE SAMPLER

File Name:	**6020647**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:39:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 10:45 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	82	0.66
Methylene Chloride	35	0.34	270	2.7
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	42	0.45
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	110	1.0
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.21	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	22	0.25
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.024	7.1	0.079
m,p-Xylene	2.2	0.027	9.2	0.11
o-Xylene	2.2	0.027	4.0	0.050
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10121 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1420ARNOLD-012512

Lab ID#: 1202077R2-16A

VOC BY PASSIVE SAMPLER

File Name:	**6020652**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 01:29 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	100	0.73
Methylene Chloride	35	0.26	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	340	2.6
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	120	0.85
Carbon Tetrachloride	3.1	0.024	3.3	0.026
Benzene	16	0.11	210	1.4
1,2-Dichloroethane	2.0	0.015	3.4	0.026
Heptane	20	0.16	120	0.93
Trichloroethene	2.7	0.020	6.6	0.048
Toluene	4.0	0.030	480	3.6
Tetrachloroethene	4.0	0.033	13	0.11
Ethyl Benzene	2.2	0.019	94	0.80
m,p-Xylene	2.2	0.019	300	2.6
o-Xylene	2.2	0.020	120	1.1
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 10115 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1420ARNOLD-012512 Blank

Lab ID#: 1202077R2-16B

VOC BY PASSIVE SAMPLER

File Name:	**6020651**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 12:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	49	0.35
Methylene Chloride	35	0.26	100	0.74
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	38	0.29
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	110	0.76
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	20	0.15
Tetrachloroethene	4.0	0.033	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	7.2	0.061
m,p-Xylene	2.2	0.019	8.1	0.070
o-Xylene	2.2	0.020	4.0	0.037
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 10115 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1414ARNOLD-012512

Lab ID#: 1202077R2-17A

VOC BY PASSIVE SAMPLER

File Name:	**6020654**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:42:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 02:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1000 E	8.1 E
Methylene Chloride	35	0.34	87	0.85
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	510	8.3
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	85	0.84
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	14	0.12
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.045	630	7.1
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	96	1.1
m,p-Xylene	2.2	0.027	280	3.5
o-Xylene	2.2	0.027	98	1.2
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10113 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1414ARNOLD-012512 Blank

Lab ID#: 1202077R2-17B

VOC BY PASSIVE SAMPLER

File Name:	**6020653**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:42:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 02:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	43	0.34
Methylene Chloride	35	0.34	760 E	7.4 E
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	49	0.52
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	110	1.0
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	17	0.20
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.2	0.058
m,p-Xylene	2.2	0.027	6.5	0.081
o-Xylene	2.2	0.027	3.1	0.038
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10113 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1415ARNOLD-012512

Lab ID#: 1202077R2-18A

VOC BY PASSIVE SAMPLER

File Name:	**6020656**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:44:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 03:40 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1100 E	8.9 E
Methylene Chloride	35	0.34	41	0.40
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	310	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	810 E	13 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	69	0.68
1,1,1-Trichloroethane	2.7	0.029	3.0	0.032
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	290	2.8
1,2-Dichloroethane	2.0	0.017	21	0.18
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	10	0.092
Toluene	4.0	0.045	550	6.2
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	90	1.0
m,p-Xylene	2.2	0.027	280	3.5
o-Xylene	2.2	0.027	110	1.4
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10109 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1415ARNOLD-012512 Blank

Lab ID#: 1202077R2-18B

VOC BY PASSIVE SAMPLER

File Name:	**6020655**	**Date of Extraction: NA**	**Date of Collection: 2/1/12 2:44:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/7/12 03:08 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	62	0.50
Methylene Chloride	35	0.34	220	2.1
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	38	0.40
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	130	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	18	0.20
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.027	8.6	0.11
o-Xylene	2.2	0.027	3.9	0.048
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10109 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202077R2-19A

VOC BY PASSIVE SAMPLER

File Name:	**6020620**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 07:59 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0074	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Acetone	24	0.19	Not Detected	Not Detected
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.019	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.93	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.023	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.028	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.21	Not Detected	Not Detected
Trichloroethene	2.7	0.023	Not Detected	Not Detected
Toluene	4.0	0.044	Not Detected	Not Detected
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.024	Not Detected	Not Detected
m,p-Xylene	2.2	0.027	Not Detected	Not Detected
o-Xylene	2.2	0.027	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10296 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202077R2-20A

VOC BY PASSIVE SAMPLER

File Name:	**6020616**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 06:00 PM**

Compound	**%Recovery**
Vinyl Chloride	103
1,1-Dichloroethene	89
Acetone	82
Methylene Chloride	84
Methyl tert-butyl ether	77
trans-1,2-Dichloroethene	98
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	104
Chloroform	91
1,1,1-Trichloroethane	91
Cyclohexane	103
Carbon Tetrachloride	106
Benzene	89
1,2-Dichloroethane	88
Heptane	84
Trichloroethene	105
Toluene	99
Tetrachloroethene	110
Ethyl Benzene	107
m,p-Xylene	105
o-Xylene	114
1,1-Dichloroethane	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1202077R2-21A
VOC BY PASSIVE SAMPLER

File Name:	**6020617**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 06:33 PM**

Compound	**%Recovery**
Vinyl Chloride	108
1,1-Dichloroethene	92
Acetone	76
Methylene Chloride	80
Methyl tert-butyl ether	75
trans-1,2-Dichloroethene	106
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	98
Chloroform	90
1,1,1-Trichloroethane	93
Cyclohexane	102
Carbon Tetrachloride	100
Benzene	90
1,2-Dichloroethane	83
Heptane	83
Trichloroethene	102
Toluene	94
Tetrachloroethene	101
Ethyl Benzene	96
m,p-Xylene	94
o-Xylene	99
1,1-Dichloroethane	89

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202077R2-21AA

VOC BY PASSIVE SAMPLER

File Name:	**6020618**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/6/12 07:00 PM**

Compound	**%Recovery**
Vinyl Chloride	109
1,1-Dichloroethene	95
Acetone	85
Methylene Chloride	82
Methyl tert-butyl ether	75
trans-1,2-Dichloroethene	108
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	102
Chloroform	84
1,1,1-Trichloroethane	90
Cyclohexane	103
Carbon Tetrachloride	89
Benzene	93
1,2-Dichloroethane	82
Heptane	83
Trichloroethene	103
Toluene	95
Tetrachloroethene	101
Ethyl Benzene	95
m,p-Xylene	94
o-Xylene	98
1,1-Dichloroethane	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

PASSIVE SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

Project Manager: Kevin Reed (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith
Email: mcarlich@cdmsmith.com; williamsmk@cdmsmith.com
Address: 345 Riverview, Ste 520 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-264-3025

Project Info:
P.O. #:
Project #: 2395-88707
Project Name: IAC Site-Wide VI

Turn Around Time: ☒ Normal ☐ Rush (specify)

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	IAP-NIC-1208EMP-012512		01/25/12	09:10	02/01/12	09:08	TO-17	☒	☐	☐	☐
02A	IAP-NIC-1141STFRAN-012512		01/25/12	09:40	02/01/12	09:17	TO-17	☒	☐	☐	☐
03A	OAP-NIC-1208EMP-012512		01/25/12	09:21	02/01/12	09:10	TO-17	☐	☒	☐	☐
04A	IAP-NIC-1032OHIO-012512		01/25/12	09:50	02/01/12	10:16	TO-17	☒	☐	☐	☐
05A	IAP-NIC-1135EMP-012512		01/25/12	10:00	02/01/12	09:22	TO-17	☒	☐	☐	☐
06A	IAP-NIC-1135EMP-012512		01/25/12	10:00	02/01/12	09:22	TO-17	☒	☐	☐	☐
07A	OAP-NIC-1016WABASH-012512		01/25/12	09:22	02/01/12	09:46	TO-17	☐	☒	☐	☐
08A	IAP-NIC-1139INDIANA-012512		01/25/12	10:29	02/01/12	10:06	TO-17	☒	☐	☐	☐
09A	IAP-NIC-1151INDIANA-012512		01/25/12	10:40	02/01/12	10:09	TO-17	☒	☐	☐	☐
10A	IAP-NIC-1148INDIANA-012512		01/25/12	11:04	02/01/12	10:12	TO-17	☒	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/1/12 1535	B. Schattoher AIC	2/2/12 0850
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No (None)	1202077

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Air Toxics LTD.

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Project Manager: Kevin Reed (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
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Address: 345 Riverview, Ste 520 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-264-3025

Project Info:
P.O. #:
Project #: 2395-88707
Project Name: NK Site-wide VI

Turn Around Time: ☒ Normal ☐ Rush (specify)

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
11A	OAP-NIC-2MMCADPARK-012512		01/25/12	13:27	02/01/12	09:40	TO-17	☐	☒	☐	☐
12A	IAP-NIC-1040INDIANA-012512		01/25/12	10:11	02/01/12	13:47	TO-17	☒	☐	☐	☐
13A	IAP-NIC-1402ARNOLD-012512		01/25/12	14:20	02/01/12	14:17	TO-17	☒	☐	☐	☐
14A	IAP-NIC-1420ARNOLD-012512		01/25/12	13:58	02/01/12	14:39	TO-17	☒	☐	☐	☐
15A	IAP-NIC-1420ARNOLD-012512		01/25/12	13:58	02/01/12	14:39	TO-17	☒	☐	☐	☐
16A	OAP-NIC-1420ARNOLD-012512		01/25/12	14:05	02/01/12	14:40	TO-17	☐	☒	☐	☐
17A	IAP-NIC-1414ARNOLD-012512		01/25/12	14:09	02/01/12	14:42	TO-17	☒	☐	☐	☐
18A	IAP-NIC-1415ARNOLD-012512		01/25/12	14:15	02/01/12	14:44	TO-17	☒	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/1/12 1535	B. Whittlesey ATL	2/2/12 0850
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No None	1202017

Air Toxics LTD.
Laboratory Services Since 1989

2/21/2012
Ms. Monica Williams
CDM
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site- Wide VI
Project #: 2395-88707
Workorder #: 1202124

Dear Ms. Monica Williams

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

The data and associated QC analyzed by Passive Ultra III (TD) 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202124

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site- Wide VI
DATE RECEIVED:	02/04/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/21/2012		

FRACTION #	NAME	TEST
01A	OAP-NIC-DUNBAR PARK-012512	Passive Ultra III (TD)
01B	OAP-NIC-DUNBAR PARK-012512 Blank	Passive Ultra III (TD)
02A	OAP-NIC-DUNBAR PARKQ-012512	Passive Ultra III (TD)
02B	OAP-NIC-DUNBAR PARKQ-012512 Bla	Passive Ultra III (TD)
03A	OAP-NIC-1435STFRAN-012612	Passive Ultra III (TD)
03B	OAP-NIC-1435STFRAN-012612 Blank	Passive Ultra III (TD)
04A	IAP-NIC-1326IND-012612	Passive Ultra III (TD)
04B	IAP-NIC-1326IND-012612 Blank	Passive Ultra III (TD)
05A	IAP-NIC-1438EMPORIA-012612	Passive Ultra III (TD)
05B	IAP-NIC-1438EMPORIA-012612 Blank	Passive Ultra III (TD)
06A	IAP-NIC-1441STFRAN-012612	Passive Ultra III (TD)
06B	IAP-NIC-1441STFRAN-012612 Blank	Passive Ultra III (TD)
07A	IAP-NIC-1511EMPORIA-12612	Passive Ultra III (TD)
07B	IAP-NIC-1511EMPORIA-12612 Blank	Passive Ultra III (TD)
08A	IAP-NIC-1240MATH-012612	Passive Ultra III (TD)
08B	IAP-NIC-1240MATH-012612 Blank	Passive Ultra III (TD)
09A	OAP-NIC-1611EMPORIA-012612	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202124

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site- Wide VI
DATE RECEIVED:	02/04/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/21/2012		

FRACTION #	NAME	TEST
09B	OAP-NIC-1611EMPORIA-012612 Blank	Passive Ultra III (TD)
10A	IAP-NIC-1155MATT-012612	Passive Ultra III (TD)
10B	IAP-NIC-1155MATT-012612 Blank	Passive Ultra III (TD)
11A	IAP-NIC-1155MATTQ-012612	Passive Ultra III (TD)
11B	IAP-NIC-1155MATTQ-012612 Blank	Passive Ultra III (TD)
12A	IAP-NIC-932WABASH-012612	Passive Ultra III (TD)
12B	IAP-NIC-932WABASH-012612 Blank	Passive Ultra III (TD)
13A	IAP-NIC-1108MATT-012612	Passive Ultra III (TD)
13B	IAP-NIC-1108MATT-012612 Blank	Passive Ultra III (TD)
14A	IAP-NIC-1035CLEV-012612	Passive Ultra III (TD)
14B	IAP-NIC-1035CLEV-012612 Blank	Passive Ultra III (TD)
15A	IAP-NIC-1048MATT-012612	Passive Ultra III (TD)
15B	IAP-NIC-1048MATT-012612 Blank	Passive Ultra III (TD)
16A	IAP-NIC-1204STFRAN-012712	Passive Ultra III (TD)
16B	IAP-NIC-1204STFRAN-012712 Blank	Passive Ultra III (TD)
17A	IAP-NIC-1102WABASH-012712	Passive Ultra III (TD)
17B	IAP-NIC-1102WABASH-012712 Blank	Passive Ultra III (TD)
18A	IAP-NIC-717MATT-012712	Passive Ultra III (TD)
18B	IAP-NIC-717MATT-012712 Blank	Passive Ultra III (TD)
19A	OAP-NIC-717MATT-012712	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202124

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site- Wide VI
DATE RECEIVED:	02/04/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/21/2012		

FRACTION #	NAME	TEST
19B	OAP-NIC-717MATT-012712 Blank	Passive Ultra III (TD)
20A	IAP-NIC-1257OHIO-012712	Passive Ultra III (TD)
20B	IAP-NIC-1257OHIO-012712 Blank	Passive Ultra III (TD)
21A	Lab Blank	Passive Ultra III (TD)
21B	Lab Blank	Passive Ultra III (TD)
21C	Lab Blank	Passive Ultra III (TD)
22A	CCV	Passive Ultra III (TD)
22B	CCV	Passive Ultra III (TD)
22C	CCV High Split	Passive Ultra III (TD)
23A	LCS	Passive Ultra III (TD)
23AA	LCSD	Passive Ultra III (TD)
23B	LCS	Passive Ultra III (TD)
23BB	LCSD	Passive Ultra III (TD)
23C	LCS	Passive Ultra III (TD)
23CC	LCSD	Passive Ultra III (TD)

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 02/21/12

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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
Passive TO-17 GC/MS
CDM
Workorder# 1202124

Twenty Ultra III (TD) samples were received on February 04, 2012. The laboratory transferred the sample sorbent bed and the associated blank sorbent bed each to separate thermal desorption tubes. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The actual exposure time and temperature were used to calculate sample concentrations and reporting limits. An exposure time of 11,736 minutes and a temperature of 70F was used to calculate concentrations and reporting limits for the associated Lab Blanks.

Samples IAP-NIC-1326IND-012612, IAP-NIC-1108MATT-012612, and IAP-NIC-1257OHIO-012712 had mass concentrations for Toluene well above the standard calibration range at saturated levels. To provide reliable results, the samples were analyzed at a higher split than the initial calibration. The results for these compounds were reported from the high split analysis resulting in a dilution of 4 to 1, while the remaining compounds were reported from the original analysis. The reporting limit and calibration range were raised accordingly.

Sample IAP-NIC-1035CLEV-012612 had mass concentrations for several target analyted well above the standard calibration range at saturated levels. To provide reliable results, the sample was analyzed at a higher split than the initial calibration. The split used resulted in a dilution of 4 to 1, and the reporting limit and calibration range were raised accordingly. Despite the dilution, Toluene and m,p-Xylene had mass concentrations which demonstrated detector saturation, and the results were flagged with an "S" to indicate potential low bias.

Results reported for Acetone in sample IAP-NIC-717MATT-012712 may be biased low due to extreme saturation.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

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 Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-DUNBAR PARK-012512

Lab ID#: 1202124-01A/01B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.030	Not Detected	0.013	0.030	
2-Butanone (Methyl Ethyl Ketone)	0.64	Not Detected	0.33	0.64	
Acetone	0.93	0.37	0.30	0.56	
Benzene	1.6	0.69	0.19	0.91	
Carbon Tetrachloride	0.037	Not Detected	0.021	0.037	
Chloroform	0.037	Not Detected	0.017	0.037	
Cyclohexane	0.66	Not Detected	0.10	0.66	
Ethyl Benzene	0.72	0.048	0.032	0.67	
Heptane	0.72	Not Detected	0.14	0.72	
Hexane	1.9	0.25	0.24	1.6	
m,p-Xylene	2.3	0.089	0.032	2.2	
Methylene Chloride	0.38	1.4	0.44	Not Detected	
o-Xylene	1.0	0.033	0.034	0.97	
Tetrachloroethene	0.12	Not Detected	0.029	0.12	
Toluene	4.0	0.14	0.052	3.9	
Trichloroethene	0.079	Not Detected	0.017	0.079	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-DUNBAR PARKQ-012512

Lab ID#: 1202124-02A/02B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.035	Not Detected	0.013	0.035	
2-Butanone (Methyl Ethyl Ketone)	0.36	Not Detected	0.33	0.36	
Acetone	0.86	0.32	0.30	0.54	
Benzene	1.5	0.70	0.19	0.80	
Carbon Tetrachloride	0.036	Not Detected	0.021	0.036	
Cyclohexane	0.65	Not Detected	0.10	0.65	
Ethyl Benzene	0.68	0.062	0.032	0.62	
Heptane	0.69	Not Detected	0.14	0.69	
Hexane	2.0	0.36	0.24	1.6	
m,p-Xylene	2.1	0.066	0.032	2.0	
Methylene Chloride	0.84	3.7	0.44	Not Detected	
o-Xylene	0.91	0.036	0.034	0.87	
Tetrachloroethene	0.12	Not Detected	0.029	0.12	
Toluene	3.8	0.16	0.052	3.6	
Trichloroethene	0.076	Not Detected	0.017	0.076	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1435STFRAN-012612

Lab ID#: 1202124-03A/03B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.023	Not Detected	0.015	0.023	
2-Butanone (Methyl Ethyl Ketone)	1.0	Not Detected	0.38	1.0	
Acetone	1.4	0.40	0.34	1.0	
Benzene	1.8	0.95	0.22	0.85	
Cyclohexane	0.61	Not Detected	0.12	0.61	
Ethyl Benzene	0.63	0.063	0.036	0.57	
Heptane	0.70	Not Detected	0.15	0.70	
Hexane	1.7	0.20	0.28	1.5	
m,p-Xylene	2.0	0.093	0.038	1.9	
Methylene Chloride	0.47	3.8	0.52	Not Detected	
o-Xylene	0.84	0.042	0.040	0.80	
Tetrachloroethene	0.10	Not Detected	0.033	0.10	
Toluene	3.9	0.22	0.060	3.7	
Trichloroethene	0.064	Not Detected	0.019	0.064	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1326IND-012612

Lab ID#: 1202124-04A/04B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.70	Not Detected	0.017	0.70	
2-Butanone (Methyl Ethyl Ketone)	5.2	Not Detected	0.95	5.2	
Acetone	7.6	0.24	0.38	7.4	E
Benzene	5.1	1.0	0.30	4.1	
Carbon Tetrachloride	0.099	Not Detected	0.030	0.099	
Chloroform	1.3	Not Detected	0.024	1.3	
Cyclohexane	4.9	Not Detected	0.22	4.9	
Ethyl Benzene	3.7	0.099	0.048	3.6	
Heptane	3.7	Not Detected	0.21	3.7	
Hexane	11	Not Detected	0.19	11	E
m,p-Xylene	16	0.22	0.054	16	E
Methylene Chloride	Not Detected	0.54	0.68	Not Detected	
o-Xylene	5.2	0.083	0.054	5.1	
Tetrachloroethene	0.26	Not Detected	0.040	0.26	
Toluene	35	0.27	0.36	35	
Trichloroethene	0.36	Not Detected	0.024	0.36	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1438EMPORIA-012612

Lab ID#: 1202124-05A/05B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.11	Not Detected	0.017	0.11	
2-Butanone (Methyl Ethyl Ketone)	8.2	Not Detected	0.95	8.2	
Acetone	2.1	0.45	0.38	1.6	
Benzene	2.3	1.4	0.30	0.90	
Carbon Tetrachloride	0.047	Not Detected	0.030	0.047	
Chloroform	0.17	Not Detected	0.024	0.17	
Cyclohexane	1.2	Not Detected	0.22	1.2	
Ethyl Benzene	0.90	0.078	0.050	0.82	
Heptane	1.2	Not Detected	0.22	1.2	
Hexane	2.4	0.28	0.38	2.1	
m,p-Xylene	3.1	0.15	0.054	3.0	
Methylene Chloride	0.49	5.0	0.68	Not Detected	
o-Xylene	1.2	0.065	0.054	1.1	
Tetrachloroethene	0.15	Not Detected	0.040	0.15	
Toluene	5.8	0.26	0.090	5.5	
Trichloroethene	0.14	Not Detected	0.024	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1441STFRAN-012612

Lab ID#: 1202124-06A/06B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.050	Not Detected	0.029	0.050	
1,2-Dichloroethane	0.083	Not Detected	0.017	0.083	
2-Butanone (Methyl Ethyl Ketone)	18	0.99	1.9	17	E
Acetone	7.4	0.60	0.38	6.8	E
Benzene	2.9	1.3	0.30	1.6	
Carbon Tetrachloride	0.25	Not Detected	0.030	0.25	
Chloroform	0.54	Not Detected	0.024	0.54	
Cyclohexane	2.9	Not Detected	0.22	2.9	
Ethyl Benzene	1.8	0.081	0.050	1.7	
Heptane	1.8	Not Detected	0.22	1.8	
Hexane	3.0	0.29	0.38	2.7	
m,p-Xylene	6.4	0.13	0.054	6.3	
Methylene Chloride	0.54	5.5	0.68	Not Detected	
o-Xylene	2.5	0.060	0.054	2.4	
Tetrachloroethene	0.72	Not Detected	0.040	0.72	
Toluene	10	0.26	0.090	9.7	E
Trichloroethene	0.14	Not Detected	0.024	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1511EMPORIA-12612

Lab ID#: 1202124-07A/07B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.033	Not Detected	0.029	0.033	
1,2-Dichloroethane	0.061	Not Detected	0.017	0.061	
2-Butanone (Methyl Ethyl Ketone)	23	0.96	1.9	22	E
Acetone	6.6	0.46	0.38	6.1	E
Benzene	2.6	1.2	0.30	1.4	
Carbon Tetrachloride	0.16	Not Detected	0.030	0.16	
Chloroform	0.79	Not Detected	0.024	0.79	
Cyclohexane	1.3	Not Detected	0.22	1.3	
Ethyl Benzene	1.1	0.066	0.050	1.0	
Heptane	1.6	Not Detected	0.22	1.6	
Hexane	2.6	0.28	0.38	2.3	
m,p-Xylene	4.0	0.13	0.056	3.9	
Methylene Chloride	0.49	5.1	0.68	Not Detected	
o-Xylene	1.6	0.054	0.056	1.5	
Tetrachloroethene	0.18	Not Detected	0.040	0.18	
Toluene	6.8	0.24	0.092	6.6	
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1240MATH-012612

Lab ID#: 1202124-08A/08B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.036	Not Detected	0.029	0.036	
1,2-Dichloroethane	0.72	Not Detected	0.017	0.72	
2-Butanone (Methyl Ethyl Ketone)	5.8	Not Detected	0.95	5.8	
Acetone	7.8	0.23	0.38	7.6	E
Benzene	5.0	1.8	0.30	3.2	
Carbon Tetrachloride	0.17	Not Detected	0.030	0.17	
Chloroform	2.8	Not Detected	0.024	2.8	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	1.3	0.095	0.048	1.2	
Heptane	1.7	Not Detected	0.21	1.7	
Hexane	3.9	Not Detected	0.19	3.9	
m,p-Xylene	4.5	0.31	0.054	4.2	
Methylene Chloride	Not Detected	0.51	0.68	Not Detected	
o-Xylene	1.5	0.083	0.054	1.4	
Tetrachloroethene	0.15	Not Detected	0.040	0.15	
Toluene	22	0.31	0.090	22	E
Trichloroethene	0.099	Not Detected	0.024	0.099	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1611EMPORIA-012612

Lab ID#: 1202124-09A/09B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.029	Not Detected	0.015	0.029	
2-Butanone (Methyl Ethyl Ketone)	1.4	Not Detected	0.38	1.4	
Acetone	1.2	0.46	0.34	0.74	
Benzene	1.6	0.92	0.22	0.68	
Chloroform	0.031	Not Detected	0.020	0.031	
Cyclohexane	0.69	Not Detected	0.12	0.69	
Ethyl Benzene	0.71	0.058	0.038	0.65	
Heptane	0.81	Not Detected	0.16	0.81	
Hexane	1.9	0.19	0.28	1.7	
m,p-Xylene	2.3	0.088	0.038	2.2	
Methylene Chloride	0.47	3.6	0.52	Not Detected	
o-Xylene	1.0	0.039	0.040	0.96	
Tetrachloroethene	0.16	Not Detected	0.033	0.16	
Toluene	4.7	0.16	0.060	4.5	
Trichloroethene	0.073	Not Detected	0.020	0.073	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1155MATT-012612

Lab ID#: 1202124-10A/10B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.056	Not Detected	0.017	0.056	
2-Butanone (Methyl Ethyl Ketone)	2.7	Not Detected	0.95	2.7	
Acetone	3.5	Not Detected	0.19	3.5	
Benzene	2.2	1.1	0.30	1.1	
Carbon Tetrachloride	0.062	Not Detected	0.030	0.062	
Chloroform	0.38	Not Detected	0.024	0.38	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	1.0	0.068	0.050	0.93	
Heptane	1.3	Not Detected	0.22	1.3	
Hexane	4.6	Not Detected	0.19	4.6	
m,p-Xylene	3.7	0.22	0.054	3.5	
Methylene Chloride	Not Detected	0.45	0.68	Not Detected	
o-Xylene	1.4	0.062	0.054	1.3	
Tetrachloroethene	0.16	Not Detected	0.040	0.16	
Toluene	6.3	0.25	0.090	6.0	
Trichloroethene	0.13	Not Detected	0.024	0.13	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1155MATTQ-012612

Lab ID#: 1202124-11A/11B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.055	Not Detected	0.017	0.055	
2-Butanone (Methyl Ethyl Ketone)	3.1	Not Detected	0.95	3.1	
Acetone	3.9	0.30	0.38	3.6	E
Benzene	2.4	1.8	0.30	0.60	
Carbon Tetrachloride	0.056	Not Detected	0.030	0.056	
Chloroform	0.30	Not Detected	0.024	0.30	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	0.99	0.083	0.050	0.91	
Heptane	1.3	Not Detected	0.22	1.3	
Hexane	3.8	Not Detected	0.19	3.8	
m,p-Xylene	3.7	0.23	0.054	3.5	
Methylene Chloride	Not Detected	0.51	0.68	Not Detected	
o-Xylene	1.3	0.069	0.054	1.2	
Tetrachloroethene	0.16	Not Detected	0.040	0.16	
Toluene	6.2	0.32	0.090	5.9	
Trichloroethene	0.13	Not Detected	0.024	0.13	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-932WABASH-012612

Lab ID#: 1202124-12A/12B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.038	Not Detected	0.029	0.038	
1,2-Dichloroethane	2.0	Not Detected	0.017	2.0	
2-Butanone (Methyl Ethyl Ketone)	13	1.2	1.9	12	E
Acetone	5.2	0.93	0.38	4.3	E
Benzene	3.7	1.6	0.30	2.1	
Carbon Tetrachloride	0.12	Not Detected	0.030	0.12	
Chloroform	1.2	Not Detected	0.024	1.2	
Cyclohexane	1.4	Not Detected	0.22	1.4	
Ethyl Benzene	1.3	0.13	0.050	1.2	
Heptane	1.6	Not Detected	0.22	1.6	
Hexane	2.8	0.29	0.38	2.5	
m,p-Xylene	4.7	0.13	0.054	4.6	
Methylene Chloride	0.45	5.0	0.68	Not Detected	
o-Xylene	2.0	0.058	0.054	1.9	
Tetrachloroethene	0.16	Not Detected	0.040	0.16	
Toluene	10	1.2	0.090	8.8	E
Trichloroethene	0.27	Not Detected	0.024	0.27	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1108MATT-012612

Lab ID#: 1202124-13A/13B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.46	Not Detected	0.017	0.46	
2-Butanone (Methyl Ethyl Ketone)	2.9	Not Detected	0.95	2.9	
Acetone	5.5	Not Detected	0.19	5.5	E
Benzene	9.1	0.99	0.30	8.1	E
Carbon Tetrachloride	0.036	Not Detected	0.030	0.036	
Chloroform	0.40	Not Detected	0.024	0.40	
Cyclohexane	5.5	Not Detected	0.22	5.5	
Ethyl Benzene	6.1	0.065	0.050	6.0	
Heptane	4.0	Not Detected	0.22	4.0	
Hexane	9.4	Not Detected	0.19	9.4	E
m,p-Xylene	24	0.21	0.054	24	E
Methylene Chloride	Not Detected	0.42	0.68	Not Detected	
o-Xylene	8.9	0.057	0.054	8.8	
Tetrachloroethene	0.65	Not Detected	0.040	0.65	
Toluene	45	0.24	0.36	45	E
Trichloroethene	0.15	Not Detected	0.024	0.15	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1035CLEV-012612

Lab ID#: 1202124-14A/14B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.51	Not Detected	0.069	0.51	
2-Butanone (Methyl Ethyl Ketone)	15	Not Detected	3.8	15	
Acetone	15	0.53	1.5	14	
Benzene	85	1.5	1.2	84	E
Chloroform	4.7	Not Detected	0.096	4.7	
Cyclohexane	160	Not Detected	0.89	160	E
Ethyl Benzene	97	0.10	0.20	97	E
Heptane	110	Not Detected	0.86	110	E
Hexane	160	0.34	1.5	160	E
m,p-Xylene	260	0.25	0.22	260	S
Methylene Chloride	2.5	4.5	2.8	Not Detected	
o-Xylene	130	0.092	0.22	130	E
Tetrachloroethene	1.6	Not Detected	0.16	1.6	
Toluene	290	0.64	0.36	290	S
Trichloroethene	0.12	Not Detected	0.095	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1048MATT-012612

Lab ID#: 1202124-15A/15B

Collection Date: 02/02/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.029	Not Detected	0.029	0.029	
1,2-Dichloroethane	0.20	Not Detected	0.017	0.20	
2-Butanone (Methyl Ethyl Ketone)	7.5	Not Detected	0.95	7.5	
Acetone	7.1	0.51	0.38	6.6	E
Benzene	3.6	1.2	0.30	2.4	
Carbon Tetrachloride	0.12	Not Detected	0.030	0.12	
Chloroform	3.3	Not Detected	0.024	3.3	
Cyclohexane	1.2	Not Detected	0.22	1.2	
Ethyl Benzene	1.3	0.16	0.050	1.1	
Heptane	2.1	Not Detected	0.22	2.1	
Hexane	4.0	0.32	0.38	3.7	
m,p-Xylene	5.0	0.64	0.056	4.4	
Methylene Chloride	Not Detected	0.54	0.68	Not Detected	
o-Xylene	1.6	0.22	0.054	1.4	
Tetrachloroethene	0.16	Not Detected	0.040	0.16	
Toluene	11	1.6	0.092	9.4	E
Trichloroethene	0.10	Not Detected	0.024	0.10	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1204STFRAN-012712

Lab ID#: 1202124-16A/16B

Collection Date: 02/03/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	1.9	Not Detected	0.017	1.9	
2-Butanone (Methyl Ethyl Ketone)	9.6	Not Detected	0.95	9.6	E
Acetone	70	0.52	0.38	69	E
Benzene	2.3	1.2	0.30	1.1	
Carbon Tetrachloride	0.052	Not Detected	0.030	0.052	
Chloroform	0.19	Not Detected	0.024	0.19	
Cyclohexane	0.96	Not Detected	0.22	0.96	
Ethyl Benzene	0.76	0.068	0.050	0.69	
Heptane	1.2	Not Detected	0.22	1.2	
Hexane	2.0	0.26	0.38	1.7	
m,p-Xylene	2.7	0.15	0.054	2.6	
Methylene Chloride	0.46	4.8	0.68	Not Detected	
o-Xylene	1.1	0.060	0.054	1.0	
Tetrachloroethene	0.14	Not Detected	0.040	0.14	
Toluene	6.2	0.28	0.090	5.9	
Trichloroethene	0.15	Not Detected	0.024	0.15	
Vinyl Chloride	0.090	Not Detected	0.0076	0.090	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1102WABASH-012712

Lab ID#: 1202124-17A/17B

Collection Date: 02/03/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.031	Not Detected	0.029	0.031	
1,2-Dichloroethane	0.44	Not Detected	0.017	0.44	
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	0.95	4.7	
Acetone	4.4	0.33	0.38	4.1	E
Benzene	5.5	1.5	0.30	4.0	
Carbon Tetrachloride	0.16	Not Detected	0.030	0.16	
Chloroform	0.40	Not Detected	0.024	0.40	
Cyclohexane	2.0	Not Detected	0.22	2.0	
Ethyl Benzene	1.3	0.072	0.050	1.2	
Heptane	3.8	Not Detected	0.22	3.8	
Hexane	3.8	0.32	0.38	3.5	
m,p-Xylene	4.5	0.22	0.054	4.3	
Methylene Chloride	Not Detected	0.53	0.68	Not Detected	
o-Xylene	1.6	0.067	0.054	1.5	
Tetrachloroethene	0.14	Not Detected	0.040	0.14	
Toluene	10	0.25	0.090	9.8	E
Trichloroethene	0.17	Not Detected	0.024	0.17	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-717MATT-012712

Lab ID#: 1202124-18A/18B

Collection Date: 02/03/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.28	Not Detected	0.017	0.28	
2-Butanone (Methyl Ethyl Ketone)	6.3	Not Detected	0.95	6.3	
Acetone	100	0.31	0.38	100	S
Benzene	2.8	1.7	0.30	1.1	
Carbon Tetrachloride	0.093	Not Detected	0.030	0.093	
Chloroform	0.60	Not Detected	0.024	0.60	
Cyclohexane	1.8	Not Detected	0.22	1.8	
Ethyl Benzene	1.2	0.055	0.050	1.1	
Heptane	1.4	Not Detected	0.22	1.4	
Hexane	4.0	0.21	0.38	3.8	
m,p-Xylene	4.3	0.22	0.056	4.1	
Methylene Chloride	Not Detected	0.45	0.68	Not Detected	
o-Xylene	1.7	0.047	0.054	1.6	
Tetrachloroethene	2.4	Not Detected	0.040	2.4	
Toluene	9.1	0.24	0.092	8.9	E
Trichloroethene	0.27	Not Detected	0.024	0.27	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-717MATT-012712

Lab ID#: 1202124-19A/19B

Collection Date: 02/03/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.032	Not Detected	0.015	0.032	
Acetone	0.60	0.39	0.34	Not Detected	
Benzene	1.2	0.51	0.22	0.69	
Carbon Tetrachloride	0.042	Not Detected	0.024	0.042	
Cyclohexane	0.52	Not Detected	0.12	0.52	
Ethyl Benzene	0.44	0.038	0.036	0.40	
Heptane	0.60	Not Detected	0.16	0.60	
Hexane	3.1	0.20	0.28	2.9	
m,p-Xylene	1.5	0.10	0.038	1.4	
Methylene Chloride	Not Detected	0.32	0.52	Not Detected	
o-Xylene	0.65	0.033	0.040	0.62	
Tetrachloroethene	0.091	Not Detected	0.033	0.091	
Toluene	2.8	0.14	0.060	2.7	
Trichloroethene	0.047	Not Detected	0.020	0.047	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1257OHIO-012712

Lab ID#: 1202124-20A/20B

Collection Date: 02/03/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.79	Not Detected	0.017	0.79	
2-Butanone (Methyl Ethyl Ketone)	34	1.2	1.9	33	E
Acetone	32	1.3	0.38	31	E
Benzene	9.8	1.3	0.30	8.5	E
Carbon Tetrachloride	0.072	Not Detected	0.030	0.072	
Chloroform	6.5	0.030	0.048	6.5	
Cyclohexane	3.4	Not Detected	0.22	3.4	
Ethyl Benzene	12	0.063	0.050	12	E
Heptane	3.5	Not Detected	0.22	3.5	
Hexane	4.8	0.28	0.38	4.5	
m,p-Xylene	24	0.19	0.056	24	E
Methylene Chloride	0.41	5.0	0.68	Not Detected	
o-Xylene	7.6	0.050	0.054	7.6	
Tetrachloroethene	0.80	Not Detected	0.040	0.80	
Toluene	93	0.28	0.36	93	E
Trichloroethene	0.71	Not Detected	0.024	0.71	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-DUNBAR PARK-012512

Lab ID#: 1202124-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.15	150	0.93
Methylene Chloride	35	0.22	59	0.38
Hexane	18	0.12	290	1.9
2-Butanone (Methyl Ethyl Ketone)	59	0.33	120	0.64
Chloroform	2.4	0.017	5.1	0.037
Cyclohexane	17	0.10	110	0.66
Carbon Tetrachloride	3.1	0.021	5.6	0.037
Benzene	16	0.094	270	1.6
1,2-Dichloroethane	2.0	0.013	4.6	0.030
Heptane	20	0.14	110	0.72
Trichloroethene	2.7	0.017	12	0.079
Toluene	4.0	0.026	610	4.0
Tetrachloroethene	4.0	0.029	17	0.12
Ethyl Benzene	2.2	0.016	99	0.72
m,p-Xylene	2.2	0.016	320	2.3
o-Xylene	2.2	0.017	130	1.0

Client Sample ID: OAP-NIC-DUNBAR PARK-012512 Blank

Lab ID#: 1202124-01B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.15	59	0.37
Methylene Chloride	35	0.22	220	1.4
Hexane	18	0.12	38	0.25
Benzene	16	0.094	120	0.69
Toluene	4.0	0.026	21	0.14
Ethyl Benzene	2.2	0.016	6.6	0.048
m,p-Xylene	2.2	0.016	12	0.089
o-Xylene	2.2	0.017	4.2	0.033

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-DUNBAR PARKQ-012512

Lab ID#: 1202124-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.15	140	0.86
Methylene Chloride	35	0.22	130	0.84
Hexane	18	0.12	310	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.33	64	0.36
Cyclohexane	17	0.10	110	0.65
Carbon Tetrachloride	3.1	0.021	5.4	0.036
Benzene	16	0.094	260	1.5
1,2-Dichloroethane	2.0	0.013	5.3	0.035
Heptane	20	0.14	100	0.69
Trichloroethene	2.7	0.017	12	0.076
Toluene	4.0	0.026	590	3.8
Tetrachloroethene	4.0	0.029	16	0.12
Ethyl Benzene	2.2	0.016	93	0.68
m,p-Xylene	2.2	0.016	290	2.1
o-Xylene	2.2	0.017	120	0.91

Client Sample ID: OAP-NIC-DUNBAR PARKQ-012512 Blank

Lab ID#: 1202124-02B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.15	52	0.32
Methylene Chloride	35	0.22	580	3.7
Hexane	18	0.12	54	0.36
Benzene	16	0.094	120	0.70
Toluene	4.0	0.026	25	0.16
Ethyl Benzene	2.2	0.016	8.5	0.062
m,p-Xylene	2.2	0.016	8.9	0.066
o-Xylene	2.2	0.017	4.6	0.036

Client Sample ID: OAP-NIC-1435STFRAN-012612

Lab ID#: 1202124-03A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1435STFRAN-012612

Lab ID#: 1202124-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	190	1.4
Methylene Chloride	35	0.26	64	0.47
Hexane	18	0.14	220	1.7
2-Butanone (Methyl Ethyl Ketone)	59	0.38	160	1.0
Cyclohexane	17	0.12	89	0.61
Benzene	16	0.11	270	1.8
1,2-Dichloroethane	2.0	0.015	3.0	0.023
Heptane	20	0.15	90	0.70
Trichloroethene	2.7	0.019	8.9	0.064
Toluene	4.0	0.030	530	3.9
Tetrachloroethene	4.0	0.033	12	0.10
Ethyl Benzene	2.2	0.018	76	0.63
m,p-Xylene	2.2	0.019	240	2.0
o-Xylene	2.2	0.020	93	0.84

Client Sample ID: OAP-NIC-1435STFRAN-012612 Blank

Lab ID#: 1202124-03B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	57	0.40
Methylene Chloride	35	0.26	520	3.8
Hexane	18	0.14	27	0.20
Benzene	16	0.11	140	0.95
Toluene	4.0	0.030	29	0.22
Ethyl Benzene	2.2	0.018	7.6	0.063
m,p-Xylene	2.2	0.019	11	0.093
o-Xylene	2.2	0.020	4.6	0.042

Client Sample ID: IAP-NIC-1326IND-012612

Lab ID#: 1202124-04A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1326IND-012612

Lab ID#: 1202124-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	950 E	7.6 E
Hexane	18	0.19	1000 E	11 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	320	5.2
Chloroform	2.4	0.024	130	1.3
Cyclohexane	17	0.22	380	4.9
Carbon Tetrachloride	3.1	0.030	10	0.099
Benzene	16	0.15	540	5.1
1,2-Dichloroethane	2.0	0.017	82	0.70
Heptane	20	0.21	340	3.7
Trichloroethene	2.7	0.024	41	0.36
Toluene	16	0.18	3100	35
Tetrachloroethene	4.0	0.040	26	0.26
Ethyl Benzene	2.2	0.024	330	3.7
m,p-Xylene	2.2	0.027	1300 E	16 E
o-Xylene	2.2	0.027	420	5.2

Client Sample ID: IAP-NIC-1326IND-012612 Blank

Lab ID#: 1202124-04B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	30	0.24
Methylene Chloride	35	0.34	56	0.54
Benzene	16	0.15	110	1.0
Toluene	4.0	0.045	24	0.27
Ethyl Benzene	2.2	0.024	8.9	0.099
m,p-Xylene	2.2	0.027	17	0.22
o-Xylene	2.2	0.027	6.7	0.083

Client Sample ID: IAP-NIC-1438EMPORIA-012612

Lab ID#: 1202124-05A

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1438EMPORIA-012612

Lab ID#: 1202124-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	260	2.1
Methylene Chloride	35	0.34	50	0.49
Hexane	18	0.19	230	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.95	510	8.2
Chloroform	2.4	0.024	17	0.17
Cyclohexane	17	0.22	90	1.2
Carbon Tetrachloride	3.1	0.030	4.8	0.047
Benzene	16	0.15	240	2.3
1,2-Dichloroethane	2.0	0.017	13	0.11
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.045	510	5.8
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	80	0.90
m,p-Xylene	2.2	0.027	250	3.1
o-Xylene	2.2	0.027	100	1.2

Client Sample ID: IAP-NIC-1438EMPORIA-012612 Blank

Lab ID#: 1202124-05B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	56	0.45
Methylene Chloride	35	0.34	510	5.0
Hexane	18	0.19	27	0.28
Benzene	16	0.15	150	1.4
Toluene	4.0	0.045	23	0.26
Ethyl Benzene	2.2	0.025	7.0	0.078
m,p-Xylene	2.2	0.027	12	0.15
o-Xylene	2.2	0.027	5.2	0.065

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1441STFRAN-012612

Lab ID#: 1202124-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	920 E	7.4 E
Methylene Chloride	35	0.34	55	0.54
Hexane	18	0.19	280	3.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1100 E	18 E
Chloroform	2.4	0.024	55	0.54
1,1,1-Trichloroethane	2.7	0.029	4.6	0.050
Cyclohexane	17	0.22	220	2.9
Carbon Tetrachloride	3.1	0.030	26	0.25
Benzene	16	0.15	310	2.9
1,2-Dichloroethane	2.0	0.017	9.7	0.083
Heptane	20	0.22	170	1.8
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.045	880 E	10 E
Tetrachloroethene	4.0	0.040	71	0.72
Ethyl Benzene	2.2	0.025	160	1.8
m,p-Xylene	2.2	0.027	510	6.4
o-Xylene	2.2	0.027	200	2.5

Client Sample ID: IAP-NIC-1441STFRAN-012612 Blank

Lab ID#: 1202124-06B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	74	0.60
Methylene Chloride	35	0.34	560	5.5
Hexane	18	0.19	27	0.29
2-Butanone (Methyl Ethyl Ketone)	59	0.95	61	0.99
Benzene	16	0.15	130	1.3
Toluene	4.0	0.045	22	0.26
Ethyl Benzene	2.2	0.025	7.2	0.081
m,p-Xylene	2.2	0.027	10	0.13
o-Xylene	2.2	0.027	4.8	0.060

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1511EMPORIA-12612

Lab ID#: 1202124-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	820 E	6.6 E
Methylene Chloride	35	0.34	50	0.49
Hexane	18	0.19	240	2.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1400 E	23 E
Chloroform	2.4	0.024	79	0.79
1,1,1-Trichloroethane	2.7	0.029	3.1	0.033
Cyclohexane	17	0.22	100	1.3
Carbon Tetrachloride	3.1	0.030	16	0.16
Benzene	16	0.15	270	2.6
1,2-Dichloroethane	2.0	0.017	7.1	0.061
Heptane	20	0.22	150	1.6
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	600	6.8
Tetrachloroethene	4.0	0.040	17	0.18
Ethyl Benzene	2.2	0.025	98	1.1
m,p-Xylene	2.2	0.028	320	4.0
o-Xylene	2.2	0.028	130	1.6

Client Sample ID: IAP-NIC-1511EMPORIA-12612 Blank

Lab ID#: 1202124-07B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	57	0.46
Methylene Chloride	35	0.34	520	5.1
Hexane	18	0.19	26	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.95	59	0.96
Benzene	16	0.15	120	1.2
Toluene	4.0	0.046	21	0.24
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.028	11	0.13
o-Xylene	2.2	0.028	4.3	0.054

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1240MATH-012612

Lab ID#: 1202124-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	970 E	7.8 E
Hexane	18	0.19	380	3.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	360	5.8
Chloroform	2.4	0.024	280	2.8
1,1,1-Trichloroethane	2.7	0.029	3.4	0.036
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	17	0.17
Benzene	16	0.15	530	5.0
1,2-Dichloroethane	2.0	0.017	84	0.72
Heptane	20	0.21	160	1.7
Trichloroethene	2.7	0.024	11	0.099
Toluene	4.0	0.045	2000 E	22 E
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.024	120	1.3
m,p-Xylene	2.2	0.027	370	4.5
o-Xylene	2.2	0.027	120	1.5

Client Sample ID: IAP-NIC-1240MATH-012612 Blank

Lab ID#: 1202124-08B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	29	0.23
Methylene Chloride	35	0.34	52	0.51
Benzene	16	0.15	190	1.8
Toluene	4.0	0.045	28	0.31
Ethyl Benzene	2.2	0.024	8.5	0.095
m,p-Xylene	2.2	0.027	25	0.31
o-Xylene	2.2	0.027	6.7	0.083

Client Sample ID: OAP-NIC-1611EMPORIA-012612

Lab ID#: 1202124-09A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1611EMPORIA-012612

Lab ID#: 1202124-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	170	1.2
Methylene Chloride	35	0.26	63	0.47
Hexane	18	0.14	250	1.9
2-Butanone (Methyl Ethyl Ketone)	59	0.38	210	1.4
Chloroform	2.4	0.020	3.7	0.031
Cyclohexane	17	0.12	98	0.69
Benzene	16	0.11	240	1.6
1,2-Dichloroethane	2.0	0.015	3.8	0.029
Heptane	20	0.16	100	0.81
Trichloroethene	2.7	0.020	9.9	0.073
Toluene	4.0	0.030	630	4.7
Tetrachloroethene	4.0	0.033	19	0.16
Ethyl Benzene	2.2	0.019	84	0.71
m,p-Xylene	2.2	0.019	270	2.3
o-Xylene	2.2	0.020	110	1.0

Client Sample ID: OAP-NIC-1611EMPORIA-012612 Blank

Lab ID#: 1202124-09B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	63	0.46
Methylene Chloride	35	0.26	490	3.6
Hexane	18	0.14	25	0.19
Benzene	16	0.11	140	0.92
Toluene	4.0	0.030	21	0.16
Ethyl Benzene	2.2	0.019	6.8	0.058
m,p-Xylene	2.2	0.019	10	0.088
o-Xylene	2.2	0.020	4.3	0.039

Client Sample ID: IAP-NIC-1155MATT-012612

Lab ID#: 1202124-10A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1155MATT-012612

Lab ID#: 1202124-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	440	3.5
Hexane	18	0.19	430	4.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	170	2.7
Chloroform	2.4	0.024	38	0.38
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	6.4	0.062
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	6.5	0.056
Heptane	20	0.22	120	1.3
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.045	560	6.3
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	91	1.0
m,p-Xylene	2.2	0.027	290	3.7
o-Xylene	2.2	0.027	110	1.4

Client Sample ID: IAP-NIC-1155MATT-012612 Blank

Lab ID#: 1202124-10B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Methylene Chloride	35	0.34	46	0.45
Benzene	16	0.15	110	1.1
Toluene	4.0	0.045	22	0.25
Ethyl Benzene	2.2	0.025	6.1	0.068
m,p-Xylene	2.2	0.027	18	0.22
o-Xylene	2.2	0.027	5.0	0.062

Client Sample ID: IAP-NIC-1155MATTQ-012612

Lab ID#: 1202124-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1155MATTQ-012612

Lab ID#: 1202124-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	480 E	3.9 E
Hexane	18	0.19	360	3.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	190	3.1
Chloroform	2.4	0.024	31	0.30
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	5.8	0.056
Benzene	16	0.15	250	2.4
1,2-Dichloroethane	2.0	0.017	6.4	0.055
Heptane	20	0.22	120	1.3
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.045	550	6.2
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	88	0.99
m,p-Xylene	2.2	0.027	290	3.7
o-Xylene	2.2	0.027	110	1.3

Client Sample ID: IAP-NIC-1155MATTQ-012612 Blank

Lab ID#: 1202124-11B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	37	0.30
Methylene Chloride	35	0.34	52	0.51
Benzene	16	0.15	200	1.8
Toluene	4.0	0.045	28	0.32
Ethyl Benzene	2.2	0.025	7.4	0.083
m,p-Xylene	2.2	0.027	19	0.23
o-Xylene	2.2	0.027	5.5	0.069

Client Sample ID: IAP-NIC-932WABASH-012612

Lab ID#: 1202124-12A

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-932WABASH-012612

Lab ID#: 1202124-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	640 E	5.2 E
Methylene Chloride	35	0.34	46	0.45
Hexane	18	0.19	270	2.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	780 E	13 E
Chloroform	2.4	0.024	120	1.2
1,1,1-Trichloroethane	2.7	0.029	3.5	0.038
Cyclohexane	17	0.22	100	1.4
Carbon Tetrachloride	3.1	0.030	13	0.12
Benzene	16	0.15	390	3.7
1,2-Dichloroethane	2.0	0.017	240	2.0
Heptane	20	0.22	150	1.6
Trichloroethene	2.7	0.024	31	0.27
Toluene	4.0	0.045	890 E	10 E
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	120	1.3
m,p-Xylene	2.2	0.027	370	4.7
o-Xylene	2.2	0.027	160	2.0

Client Sample ID: IAP-NIC-932WABASH-012612 Blank

Lab ID#: 1202124-12B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	120	0.93
Methylene Chloride	35	0.34	510	5.0
Hexane	18	0.19	28	0.29
2-Butanone (Methyl Ethyl Ketone)	59	0.95	71	1.2
Benzene	16	0.15	170	1.6
Toluene	4.0	0.045	110	1.2
Ethyl Benzene	2.2	0.025	12	0.13
m,p-Xylene	2.2	0.027	10	0.13
o-Xylene	2.2	0.027	4.7	0.058

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1108MATT-012612

Lab ID#: 1202124-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	690 E	5.5 E
Hexane	18	0.19	900 E	9.4 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	180	2.9
Chloroform	2.4	0.024	41	0.40
Cyclohexane	17	0.22	420	5.5
Carbon Tetrachloride	3.1	0.030	3.7	0.036
Benzene	16	0.15	960 E	9.1 E
1,2-Dichloroethane	2.0	0.017	54	0.46
Heptane	20	0.22	370	4.0
Trichloroethene	2.7	0.024	17	0.15
Toluene	16	0.18	3900 E	45 E
Tetrachloroethene	4.0	0.040	64	0.65
Ethyl Benzene	2.2	0.025	550	6.1
m,p-Xylene	2.2	0.027	1900 E	24 E
o-Xylene	2.2	0.027	720	8.9

Client Sample ID: IAP-NIC-1108MATT-012612 Blank

Lab ID#: 1202124-13B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Methylene Chloride	35	0.34	42	0.42
Benzene	16	0.15	100	0.99
Toluene	4.0	0.045	21	0.24
Ethyl Benzene	2.2	0.025	5.8	0.065
m,p-Xylene	2.2	0.027	17	0.21
o-Xylene	2.2	0.027	4.6	0.057

Client Sample ID: IAP-NIC-1035CLEV-012612

Lab ID#: 1202124-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1035CLEV-012612

Lab ID#: 1202124-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	96	0.77	1900	15
Methylene Chloride	140	1.4	250	2.5
Hexane	72	0.76	15000 E	160 E
2-Butanone (Methyl Ethyl Ketone)	240	3.8	960	15
Chloroform	9.6	0.096	470	4.7
Cyclohexane	68	0.89	13000 E	160 E
Benzene	64	0.60	9000 E	85 E
1,2-Dichloroethane	8.0	0.069	60	0.51
Heptane	80	0.86	10000 E	110 E
Trichloroethene	11	0.095	14	0.12
Toluene	16	0.18	>26000 S	>290 S
Tetrachloroethene	16	0.16	160	1.6
Ethyl Benzene	8.8	0.099	8600 E	97 E
m,p-Xylene	8.8	0.11	>21000 S	>260 S
o-Xylene	8.8	0.11	10000 E	130 E

Client Sample ID: IAP-NIC-1035CLEV-012612 Blank

Lab ID#: 1202124-14B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	67	0.53
Methylene Chloride	35	0.34	460	4.5
Hexane	18	0.19	32	0.34
Benzene	16	0.15	160	1.5
Toluene	4.0	0.045	56	0.64
Ethyl Benzene	2.2	0.025	8.9	0.10
m,p-Xylene	2.2	0.027	20	0.25
o-Xylene	2.2	0.027	7.4	0.092

Client Sample ID: IAP-NIC-1048MATT-012612

Lab ID#: 1202124-15A

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1048MATT-012612

Lab ID#: 1202124-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	880 E	7.1 E
Hexane	18	0.19	380	4.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	460	7.5
Chloroform	2.4	0.024	330	3.3
1,1,1-Trichloroethane	2.7	0.029	2.7	0.029
Cyclohexane	17	0.22	92	1.2
Carbon Tetrachloride	3.1	0.030	13	0.12
Benzene	16	0.15	380	3.6
1,2-Dichloroethane	2.0	0.017	23	0.20
Heptane	20	0.22	190	2.1
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	960 E	11 E
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	120	1.3
m,p-Xylene	2.2	0.028	400	5.0
o-Xylene	2.2	0.027	130	1.6

Client Sample ID: IAP-NIC-1048MATT-012612 Blank

Lab ID#: 1202124-15B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	63	0.51
Methylene Chloride	35	0.34	55	0.54
Hexane	18	0.19	31	0.32
Benzene	16	0.15	120	1.2
Toluene	4.0	0.046	140	1.6
Ethyl Benzene	2.2	0.025	14	0.16
m,p-Xylene	2.2	0.028	51	0.64
o-Xylene	2.2	0.027	18	0.22

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1204STFRAN-012712

Lab ID#: 1202124-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	16	0.090
Acetone	24	0.19	8800 E	70 E
Methylene Chloride	35	0.34	46	0.46
Hexane	18	0.19	200	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	600 E	9.6 E
Chloroform	2.4	0.024	19	0.19
Cyclohexane	17	0.22	73	0.96
Carbon Tetrachloride	3.1	0.030	5.3	0.052
Benzene	16	0.15	250	2.3
1,2-Dichloroethane	2.0	0.017	230	1.9
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.045	550	6.2
Tetrachloroethene	4.0	0.040	14	0.14
Ethyl Benzene	2.2	0.025	68	0.76
m,p-Xylene	2.2	0.027	220	2.7
o-Xylene	2.2	0.027	86	1.1

Client Sample ID: IAP-NIC-1204STFRAN-012712 Blank

Lab ID#: 1202124-16B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	65	0.52
Methylene Chloride	35	0.34	490	4.8
Hexane	18	0.19	25	0.26
Benzene	16	0.15	130	1.2
Toluene	4.0	0.045	25	0.28
Ethyl Benzene	2.2	0.025	6.1	0.068
m,p-Xylene	2.2	0.027	12	0.15
o-Xylene	2.2	0.027	4.8	0.060

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1102WABASH-012712

Lab ID#: 1202124-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	550 E	4.4 E
Hexane	18	0.19	360	3.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	290	4.7
Chloroform	2.4	0.024	40	0.40
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	160	2.0
Carbon Tetrachloride	3.1	0.030	17	0.16
Benzene	16	0.15	580	5.5
1,2-Dichloroethane	2.0	0.017	52	0.44
Heptane	20	0.22	350	3.8
Trichloroethene	2.7	0.024	19	0.17
Toluene	4.0	0.045	890 E	10 E
Tetrachloroethene	4.0	0.040	14	0.14
Ethyl Benzene	2.2	0.025	110	1.3
m,p-Xylene	2.2	0.027	360	4.5
o-Xylene	2.2	0.027	130	1.6

Client Sample ID: IAP-NIC-1102WABASH-012712 Blank

Lab ID#: 1202124-17B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	41	0.33
Methylene Chloride	35	0.34	54	0.53
Hexane	18	0.19	30	0.32
Benzene	16	0.15	160	1.5
Toluene	4.0	0.045	22	0.25
Ethyl Benzene	2.2	0.025	6.4	0.072
m,p-Xylene	2.2	0.027	18	0.22
o-Xylene	2.2	0.027	5.4	0.067

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-717MATT-012712

Lab ID#: 1202124-18A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	>13000 S	>100 S
Hexane	18	0.19	380	4.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	390	6.3
Chloroform	2.4	0.024	60	0.60
Cyclohexane	17	0.22	140	1.8
Carbon Tetrachloride	3.1	0.030	9.6	0.093
Benzene	16	0.15	300	2.8
1,2-Dichloroethane	2.0	0.017	33	0.28
Heptane	20	0.22	130	1.4
Trichloroethene	2.7	0.024	31	0.27
Toluene	4.0	0.046	800 E	9.1 E
Tetrachloroethene	4.0	0.040	240	2.4
Ethyl Benzene	2.2	0.025	110	1.2
m,p-Xylene	2.2	0.028	350	4.3
o-Xylene	2.2	0.027	140	1.7

Client Sample ID: IAP-NIC-717MATT-012712 Blank

Lab ID#: 1202124-18B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	39	0.31
Methylene Chloride	35	0.34	46	0.45
Hexane	18	0.19	20	0.21
Benzene	16	0.15	180	1.7
Toluene	4.0	0.046	22	0.24
Ethyl Benzene	2.2	0.025	4.9	0.055
m,p-Xylene	2.2	0.028	18	0.22
o-Xylene	2.2	0.027	3.8	0.047

Client Sample ID: OAP-NIC-717MATT-012712

Lab ID#: 1202124-19A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-717MATT-012712

Lab ID#: 1202124-19A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	83	0.60
Hexane	18	0.14	400	3.1
Cyclohexane	17	0.12	75	0.52
Carbon Tetrachloride	3.1	0.024	5.4	0.042
Benzene	16	0.11	180	1.2
1,2-Dichloroethane	2.0	0.015	4.2	0.032
Heptane	20	0.16	77	0.60
Trichloroethene	2.7	0.020	6.4	0.047
Toluene	4.0	0.030	380	2.8
Tetrachloroethene	4.0	0.033	11	0.091
Ethyl Benzene	2.2	0.018	52	0.44
m,p-Xylene	2.2	0.019	180	1.5
o-Xylene	2.2	0.020	71	0.65

Client Sample ID: OAP-NIC-717MATT-012712 Blank

Lab ID#: 1202124-19B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	54	0.39
Methylene Chloride	35	0.26	43	0.32
Hexane	18	0.14	27	0.20
Benzene	16	0.11	74	0.51
Toluene	4.0	0.030	18	0.14
Ethyl Benzene	2.2	0.018	4.5	0.038
m,p-Xylene	2.2	0.019	12	0.10
o-Xylene	2.2	0.020	3.6	0.033

Client Sample ID: IAP-NIC-1257OHIO-012712

Lab ID#: 1202124-20A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1257OHIO-012712

Lab ID#: 1202124-20A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	3900 E	32 E
Methylene Chloride	35	0.34	42	0.41
Hexane	18	0.19	450	4.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	2100 E	34 E
Chloroform	2.4	0.024	650	6.5
Cyclohexane	17	0.22	260	3.4
Carbon Tetrachloride	3.1	0.030	7.4	0.072
Benzene	16	0.15	1000 E	9.8 E
1,2-Dichloroethane	2.0	0.017	92	0.79
Heptane	20	0.22	320	3.5
Trichloroethene	2.7	0.024	81	0.71
Toluene	16	0.18	8200 E	93 E
Tetrachloroethene	4.0	0.040	79	0.80
Ethyl Benzene	2.2	0.025	1100 E	12 E
m,p-Xylene	2.2	0.028	1900 E	24 E
o-Xylene	2.2	0.027	610	7.6

Client Sample ID: IAP-NIC-1257OHIO-012712 Blank

Lab ID#: 1202124-20B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	170	1.3
Methylene Chloride	35	0.34	510	5.0
Hexane	18	0.19	27	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.95	72	1.2
Chloroform	2.4	0.024	3.0	0.030
Benzene	16	0.15	140	1.3
Toluene	4.0	0.046	24	0.28
Ethyl Benzene	2.2	0.025	5.6	0.063
m,p-Xylene	2.2	0.028	15	0.19
o-Xylene	2.2	0.027	4.0	0.050

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-DUNBAR PARK-012512

Lab ID#: 1202124-01A

VOC BY PASSIVE SAMPLER

File Name:	**6020814**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 12:23 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0058	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Acetone	24	0.15	150	0.93
Methylene Chloride	35	0.22	59	0.38
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Hexane	18	0.12	290	1.9
2-Butanone (Methyl Ethyl Ketone)	59	0.33	120	0.64
cis-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Chloroform	2.4	0.017	5.1	0.037
1,1,1-Trichloroethane	2.7	0.018	Not Detected	Not Detected
Cyclohexane	17	0.10	110	0.66
Carbon Tetrachloride	3.1	0.021	5.6	0.037
Benzene	16	0.094	270	1.6
1,2-Dichloroethane	2.0	0.013	4.6	0.030
Heptane	20	0.14	110	0.72
Trichloroethene	2.7	0.017	12	0.079
Toluene	4.0	0.026	610	4.0
Tetrachloroethene	4.0	0.029	17	0.12
Ethyl Benzene	2.2	0.016	99	0.72
m,p-Xylene	2.2	0.016	320	2.3
o-Xylene	2.2	0.017	130	1.0
1,1-Dichloroethane	2.0	0.015	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 11736 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-DUNBAR PARK-012512 Blank

Lab ID#: 1202124-01B

VOC BY PASSIVE SAMPLER

File Name:	**6020813**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 11:50 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0058	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Acetone	24	0.15	59	0.37
Methylene Chloride	35	0.22	220	1.4
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Hexane	18	0.12	38	0.25
2-Butanone (Methyl Ethyl Ketone)	59	0.33	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Chloroform	2.4	0.017	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.018	Not Detected	Not Detected
Cyclohexane	17	0.10	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.021	Not Detected	Not Detected
Benzene	16	0.094	120	0.69
1,2-Dichloroethane	2.0	0.013	Not Detected	Not Detected
Heptane	20	0.14	Not Detected	Not Detected
Trichloroethene	2.7	0.017	Not Detected	Not Detected
Toluene	4.0	0.026	21	0.14
Tetrachloroethene	4.0	0.029	Not Detected	Not Detected
Ethyl Benzene	2.2	0.016	6.6	0.048
m,p-Xylene	2.2	0.016	12	0.089
o-Xylene	2.2	0.017	4.2	0.033
1,1-Dichloroethane	2.0	0.015	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 11736 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-DUNBAR PARKQ-012512

Lab ID#: 1202124-02A

VOC BY PASSIVE SAMPLER

File Name:	**6020816**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 01:30 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0058	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Acetone	24	0.15	140	0.86
Methylene Chloride	35	0.22	130	0.84
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Hexane	18	0.12	310	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.33	64	0.36
cis-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Chloroform	2.4	0.017	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.018	Not Detected	Not Detected
Cyclohexane	17	0.10	110	0.65
Carbon Tetrachloride	3.1	0.021	5.4	0.036
Benzene	16	0.094	260	1.5
1,2-Dichloroethane	2.0	0.013	5.3	0.035
Heptane	20	0.14	100	0.69
Trichloroethene	2.7	0.017	12	0.076
Toluene	4.0	0.026	590	3.8
Tetrachloroethene	4.0	0.029	16	0.12
Ethyl Benzene	2.2	0.016	93	0.68
m,p-Xylene	2.2	0.016	290	2.1
o-Xylene	2.2	0.017	120	0.91
1,1-Dichloroethane	2.0	0.015	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 11736 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-DUNBAR PARKQ-012512 Blank

Lab ID#: 1202124-02B

VOC BY PASSIVE SAMPLER

File Name:	**6020815**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 12:56 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0058	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Acetone	24	0.15	52	0.32
Methylene Chloride	35	0.22	580	3.7
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Hexane	18	0.12	54	0.36
2-Butanone (Methyl Ethyl Ketone)	59	0.33	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Chloroform	2.4	0.017	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.018	Not Detected	Not Detected
Cyclohexane	17	0.10	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.021	Not Detected	Not Detected
Benzene	16	0.094	120	0.70
1,2-Dichloroethane	2.0	0.013	Not Detected	Not Detected
Heptane	20	0.14	Not Detected	Not Detected
Trichloroethene	2.7	0.017	Not Detected	Not Detected
Toluene	4.0	0.026	25	0.16
Tetrachloroethene	4.0	0.029	Not Detected	Not Detected
Ethyl Benzene	2.2	0.016	8.5	0.062
m,p-Xylene	2.2	0.016	8.9	0.066
o-Xylene	2.2	0.017	4.6	0.036
1,1-Dichloroethane	2.0	0.015	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 11736 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1435STFRAN-012612

Lab ID#: 1202124-03A

VOC BY PASSIVE SAMPLER

File Name:	**6020818**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:44:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 02:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0066	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.17	190	1.4
Methylene Chloride	35	0.26	64	0.47
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.14	220	1.7
2-Butanone (Methyl Ethyl Ketone)	59	0.38	160	1.0
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.020	Not Detected	Not Detected
Cyclohexane	17	0.12	89	0.61
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	270	1.8
1,2-Dichloroethane	2.0	0.015	3.0	0.023
Heptane	20	0.15	90	0.70
Trichloroethene	2.7	0.019	8.9	0.064
Toluene	4.0	0.030	530	3.9
Tetrachloroethene	4.0	0.033	12	0.10
Ethyl Benzene	2.2	0.018	76	0.63
m,p-Xylene	2.2	0.019	240	2.0
o-Xylene	2.2	0.020	93	0.84
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10214 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1435STFRAN-012612 Blank

Lab ID#: 1202124-03B

VOC BY PASSIVE SAMPLER

File Name:	**6020817**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:44:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 02:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0066	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.17	57	0.40
Methylene Chloride	35	0.26	520	3.8
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.14	27	0.20
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.020	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	140	0.95
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.15	Not Detected	Not Detected
Trichloroethene	2.7	0.019	Not Detected	Not Detected
Toluene	4.0	0.030	29	0.22
Tetrachloroethene	4.0	0.033	Not Detected	Not Detected
Ethyl Benzene	2.2	0.018	7.6	0.063
m,p-Xylene	2.2	0.019	11	0.093
o-Xylene	2.2	0.020	4.6	0.042
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10214 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1326IND-012612

Lab ID#: 1202124-04A

VOC BY PASSIVE SAMPLER

File Name:	**6020820**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:52:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 03:43 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	950 E	7.6 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	1000 E	11 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	320	5.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	130	1.3
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	380	4.9
Carbon Tetrachloride	3.1	0.030	10	0.099
Benzene	16	0.15	540	5.1
1,2-Dichloroethane	2.0	0.017	82	0.70
Heptane	20	0.21	340	3.7
Trichloroethene	2.7	0.024	41	0.36
Toluene	16	0.18	3100	35
Tetrachloroethene	4.0	0.040	26	0.26
Ethyl Benzene	2.2	0.024	330	3.7
m,p-Xylene	2.2	0.027	1300 E	16 E
o-Xylene	2.2	0.027	420	5.2
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Toluene was reported from file #6021007, analyzed on 2/10/12 with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10132 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1326IND-012612 Blank

Lab ID#: 1202124-04B

VOC BY PASSIVE SAMPLER

File Name:	**6020819**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:52:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 03:08 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	30	0.24
Methylene Chloride	35	0.34	56	0.54
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	110	1.0
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.21	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	24	0.27
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.024	8.9	0.099
m,p-Xylene	2.2	0.027	17	0.22
o-Xylene	2.2	0.027	6.7	0.083
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10132 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1438EMPORIA-012612

Lab ID#: 1202124-05A

VOC BY PASSIVE SAMPLER

File Name:	**6020822**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:28:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 04:48 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	260	2.1
Methylene Chloride	35	0.34	50	0.49
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	230	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.95	510	8.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	17	0.17
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	90	1.2
Carbon Tetrachloride	3.1	0.030	4.8	0.047
Benzene	16	0.15	240	2.3
1,2-Dichloroethane	2.0	0.017	13	0.11
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.045	510	5.8
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	80	0.90
m,p-Xylene	2.2	0.027	250	3.1
o-Xylene	2.2	0.027	100	1.2
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10091 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1438EMPORIA-012612 Blank

Lab ID#: 1202124-05B

VOC BY PASSIVE SAMPLER

File Name:	**6020821**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:28:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 04:15 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	56	0.45
Methylene Chloride	35	0.34	510	5.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	27	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	150	1.4
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	23	0.26
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.0	0.078
m,p-Xylene	2.2	0.027	12	0.15
o-Xylene	2.2	0.027	5.2	0.065
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10091 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1441STFRAN-012612

Lab ID#: 1202124-06A

VOC BY PASSIVE SAMPLER

File Name:	**6020824**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:41:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 05:54 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	920 E	7.4 E
Methylene Chloride	35	0.34	55	0.54
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	280	3.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1100 E	18 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	55	0.54
1,1,1-Trichloroethane	2.7	0.029	4.6	0.050
Cyclohexane	17	0.22	220	2.9
Carbon Tetrachloride	3.1	0.030	26	0.25
Benzene	16	0.15	310	2.9
1,2-Dichloroethane	2.0	0.017	9.7	0.083
Heptane	20	0.22	170	1.8
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.045	880 E	10 E
Tetrachloroethene	4.0	0.040	71	0.72
Ethyl Benzene	2.2	0.025	160	1.8
m,p-Xylene	2.2	0.027	510	6.4
o-Xylene	2.2	0.027	200	2.5
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10088 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1441STFRAN-012612 Blank

Lab ID#: 1202124-06B

VOC BY PASSIVE SAMPLER

File Name:	**6020823**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:41:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 05:21 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	74	0.60
Methylene Chloride	35	0.34	560	5.5
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	27	0.29
2-Butanone (Methyl Ethyl Ketone)	59	0.95	61	0.99
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	130	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	22	0.26
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.2	0.081
m,p-Xylene	2.2	0.027	10	0.13
o-Xylene	2.2	0.027	4.8	0.060
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10088 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1511EMPORIA-12612

Lab ID#: 1202124-07A

VOC BY PASSIVE SAMPLER

File Name:	**6020826**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 07:00 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	820 E	6.6 E
Methylene Chloride	35	0.34	50	0.49
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	240	2.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1400 E	23 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	79	0.79
1,1,1-Trichloroethane	2.7	0.029	3.1	0.033
Cyclohexane	17	0.22	100	1.3
Carbon Tetrachloride	3.1	0.030	16	0.16
Benzene	16	0.15	270	2.6
1,2-Dichloroethane	2.0	0.017	7.1	0.061
Heptane	20	0.22	150	1.6
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	600	6.8
Tetrachloroethene	4.0	0.040	17	0.18
Ethyl Benzene	2.2	0.025	98	1.1
m,p-Xylene	2.2	0.028	320	4.0
o-Xylene	2.2	0.028	130	1.6
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10060 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1511EMPORIA-12612 Blank

Lab ID#: 1202124-07B

VOC BY PASSIVE SAMPLER

File Name:	**6020825**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 06:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	57	0.46
Methylene Chloride	35	0.34	520	5.1
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	26	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.95	59	0.96
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	21	0.24
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.028	11	0.13
o-Xylene	2.2	0.028	4.3	0.054
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10060 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1240MATH-012612

Lab ID#: 1202124-08A

VOC BY PASSIVE SAMPLER

File Name:	**6020910**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:56:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 01:53 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	970 E	7.8 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	380	3.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	360	5.8
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	280	2.8
1,1,1-Trichloroethane	2.7	0.029	3.4	0.036
Cyclohexane	17	0.22	110	1.5
Carbon Tetrachloride	3.1	0.030	17	0.17
Benzene	16	0.15	530	5.0
1,2-Dichloroethane	2.0	0.017	84	0.72
Heptane	20	0.21	160	1.7
Trichloroethene	2.7	0.024	11	0.099
Toluene	4.0	0.045	2000 E	22 E
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.024	120	1.3
m,p-Xylene	2.2	0.027	370	4.5
o-Xylene	2.2	0.027	120	1.5
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10136 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1240MATH-012612 Blank

Lab ID#: 1202124-08B

VOC BY PASSIVE SAMPLER

File Name:	**6020827**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:56:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 07:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	29	0.23
Methylene Chloride	35	0.34	52	0.51
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	190	1.8
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.21	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	28	0.31
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.024	8.5	0.095
m,p-Xylene	2.2	0.027	25	0.31
o-Xylene	2.2	0.027	6.7	0.083
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10136 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1611EMPORIA-012612

Lab ID#: 1202124-09A

VOC BY PASSIVE SAMPLER

File Name:	**6020830**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:36:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 09:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	170	1.2
Methylene Chloride	35	0.26	63	0.47
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	250	1.9
2-Butanone (Methyl Ethyl Ketone)	59	0.38	210	1.4
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	3.7	0.031
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	98	0.69
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	240	1.6
1,2-Dichloroethane	2.0	0.015	3.8	0.029
Heptane	20	0.16	100	0.81
Trichloroethene	2.7	0.020	9.9	0.073
Toluene	4.0	0.030	630	4.7
Tetrachloroethene	4.0	0.033	19	0.16
Ethyl Benzene	2.2	0.019	84	0.71
m,p-Xylene	2.2	0.019	270	2.3
o-Xylene	2.2	0.020	110	1.0
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10047 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1611EMPORIA-012612 Blank

Lab ID#: 1202124-09B

VOC BY PASSIVE SAMPLER

File Name:	**6020829**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 2:36:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 08:30 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	63	0.46
Methylene Chloride	35	0.26	490	3.6
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	25	0.19
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	140	0.92
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	21	0.16
Tetrachloroethene	4.0	0.033	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	6.8	0.058
m,p-Xylene	2.2	0.019	10	0.088
o-Xylene	2.2	0.020	4.3	0.039
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10047 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1155MATT-012612

Lab ID#: 1202124-10A

VOC BY PASSIVE SAMPLER

File Name:	**6020832**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:16:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 10:09 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	440	3.5
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	430	4.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	170	2.7
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	38	0.38
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	6.4	0.062
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	6.5	0.056
Heptane	20	0.22	120	1.3
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.045	560	6.3
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	91	1.0
m,p-Xylene	2.2	0.027	290	3.7
o-Xylene	2.2	0.027	110	1.4
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10081 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1155MATT-012612 Blank

Lab ID#: 1202124-10B

VOC BY PASSIVE SAMPLER

File Name:	**6020831**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:16:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 09:36 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	Not Detected	Not Detected
Methylene Chloride	35	0.34	46	0.45
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	110	1.1
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	22	0.25
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.1	0.068
m,p-Xylene	2.2	0.027	18	0.22
o-Xylene	2.2	0.027	5.0	0.062
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10081 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1155MATTQ-012612

Lab ID#: 1202124-11A

VOC BY PASSIVE SAMPLER

File Name:	**6020834**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:16:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 11:15 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	480 E	3.9 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	360	3.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	190	3.1
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	31	0.30
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	5.8	0.056
Benzene	16	0.15	250	2.4
1,2-Dichloroethane	2.0	0.017	6.4	0.055
Heptane	20	0.22	120	1.3
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.045	550	6.2
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	88	0.99
m,p-Xylene	2.2	0.027	290	3.7
o-Xylene	2.2	0.027	110	1.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10081 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1155MATTQ-012612 Blank

Lab ID#: 1202124-11B

VOC BY PASSIVE SAMPLER

File Name:	**6020833**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:16:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 10:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	37	0.30
Methylene Chloride	35	0.34	52	0.51
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	200	1.8
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	28	0.32
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.4	0.083
m,p-Xylene	2.2	0.027	19	0.23
o-Xylene	2.2	0.027	5.5	0.069
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10081 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-932WABASH-012612

Lab ID#: 1202124-12A

VOC BY PASSIVE SAMPLER

File Name:	**6020836**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:46:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 12:21 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	640 E	5.2 E
Methylene Chloride	35	0.34	46	0.45
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	270	2.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	780 E	13 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	120	1.2
1,1,1-Trichloroethane	2.7	0.029	3.5	0.038
Cyclohexane	17	0.22	100	1.4
Carbon Tetrachloride	3.1	0.030	13	0.12
Benzene	16	0.15	390	3.7
1,2-Dichloroethane	2.0	0.017	240	2.0
Heptane	20	0.22	150	1.6
Trichloroethene	2.7	0.024	31	0.27
Toluene	4.0	0.045	890 E	10 E
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	120	1.3
m,p-Xylene	2.2	0.027	370	4.7
o-Xylene	2.2	0.027	160	2.0
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10098 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-932WABASH-012612 Blank

Lab ID#: 1202124-12B

VOC BY PASSIVE SAMPLER

File Name:	**6020835**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:46:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 11:49 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	120	0.93
Methylene Chloride	35	0.34	510	5.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	28	0.29
2-Butanone (Methyl Ethyl Ketone)	59	0.95	71	1.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	170	1.6
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	110	1.2
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	12	0.13
m,p-Xylene	2.2	0.027	10	0.13
o-Xylene	2.2	0.027	4.7	0.058
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10098 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1108MATT-012612

Lab ID#: 1202124-13A

VOC BY PASSIVE SAMPLER

File Name:	**6020838**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:39:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 01:27 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	690 E	5.5 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	900 E	9.4 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	180	2.9
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	41	0.40
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	420	5.5
Carbon Tetrachloride	3.1	0.030	3.7	0.036
Benzene	16	0.15	960 E	9.1 E
1,2-Dichloroethane	2.0	0.017	54	0.46
Heptane	20	0.22	370	4.0
Trichloroethene	2.7	0.024	17	0.15
Toluene	16	0.18	3900 E	45 E
Tetrachloroethene	4.0	0.040	64	0.65
Ethyl Benzene	2.2	0.025	550	6.1
m,p-Xylene	2.2	0.027	1900 E	24 E
o-Xylene	2.2	0.027	720	8.9
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Toluene was reported from file #6021008, analyzed on 2/10/12 with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10089 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1108MATT-012612 Blank

Lab ID#: 1202124-13B

VOC BY PASSIVE SAMPLER

File Name:	**6020837**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:39:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 12:54 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	Not Detected	Not Detected
Methylene Chloride	35	0.34	42	0.42
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	100	0.99
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	21	0.24
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.8	0.065
m,p-Xylene	2.2	0.027	17	0.21
o-Xylene	2.2	0.027	4.6	0.057
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10089 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1035CLEV-012612

Lab ID#: 1202124-14A

VOC BY PASSIVE SAMPLER

File Name:	**6021009**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:51:00 PM**
Dil. Factor:	**4.00**		**Date of Analysis: 2/10/12 02:55 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	5.2	0.030	Not Detected	Not Detected
1,1-Dichloroethene	8.0	0.083	Not Detected	Not Detected
Acetone	96	0.77	1900	15
Methylene Chloride	140	1.4	250	2.5
Methyl tert-butyl ether	72	0.74	Not Detected	Not Detected
trans-1,2-Dichloroethene	8.0	0.079	Not Detected	Not Detected
Hexane	72	0.76	15000 E	160 E
2-Butanone (Methyl Ethyl Ketone)	240	3.8	960	15
cis-1,2-Dichloroethene	8.0	0.073	Not Detected	Not Detected
Chloroform	9.6	0.096	470	4.7
1,1,1-Trichloroethane	11	0.12	Not Detected	Not Detected
Cyclohexane	68	0.89	13000 E	160 E
Carbon Tetrachloride	12	0.12	Not Detected	Not Detected
Benzene	64	0.60	9000 E	85 E
1,2-Dichloroethane	8.0	0.069	60	0.51
Heptane	80	0.86	10000 E	110 E
Trichloroethene	11	0.095	14	0.12
Toluene	16	0.18	>26000 S	>290 S
Tetrachloroethene	16	0.16	160	1.6
Ethyl Benzene	8.8	0.099	8600 E	97 E
m,p-Xylene	8.8	0.11	>21000 S	>260 S
o-Xylene	8.8	0.11	10000 E	130 E
1,1-Dichloroethane	8.0	0.062	Not Detected	Not Detected

E = Exceeds instrument calibration range.
S = Saturated peak; data reported as estimated.

Temperature = 69.8F , duration time = 10086 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	110	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1035CLEV-012612 Blank

Lab ID#: 1202124-14B

VOC BY PASSIVE SAMPLER

File Name:	**6020839**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:51:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 01:59 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	67	0.53
Methylene Chloride	35	0.34	460	4.5
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	32	0.34
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.5
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	56	0.64
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	8.9	0.10
m,p-Xylene	2.2	0.027	20	0.25
o-Xylene	2.2	0.027	7.4	0.092
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10086 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1048MATT-012612

Lab ID#: 1202124-15A

VOC BY PASSIVE SAMPLER

File Name:	**6020842**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:42:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 03:37 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	880 E	7.1 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	380	4.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	460	7.5
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	330	3.3
1,1,1-Trichloroethane	2.7	0.029	2.7	0.029
Cyclohexane	17	0.22	92	1.2
Carbon Tetrachloride	3.1	0.030	13	0.12
Benzene	16	0.15	380	3.6
1,2-Dichloroethane	2.0	0.017	23	0.20
Heptane	20	0.22	190	2.1
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	960 E	11 E
Tetrachloroethene	4.0	0.040	16	0.16
Ethyl Benzene	2.2	0.025	120	1.3
m,p-Xylene	2.2	0.028	400	5.0
o-Xylene	2.2	0.027	130	1.6
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10072 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1048MATT-012612 Blank

Lab ID#: 1202124-15B

VOC BY PASSIVE SAMPLER

File Name:	**6020841**	**Date of Extraction: NA**	**Date of Collection: 2/2/12 3:42:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 03:05 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	63	0.51
Methylene Chloride	35	0.34	55	0.54
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	31	0.32
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	140	1.6
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	14	0.16
m,p-Xylene	2.2	0.028	51	0.64
o-Xylene	2.2	0.027	18	0.22
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10072 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1204STFRAN-012712

Lab ID#: 1202124-16A

VOC BY PASSIVE SAMPLER

File Name:	**6020844**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 9:12:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 04:43 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	16	0.090
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	8800 E	70 E
Methylene Chloride	35	0.34	46	0.46
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	200	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	600 E	9.6 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	19	0.19
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	73	0.96
Carbon Tetrachloride	3.1	0.030	5.3	0.052
Benzene	16	0.15	250	2.3
1,2-Dichloroethane	2.0	0.017	230	1.9
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.045	550	6.2
Tetrachloroethene	4.0	0.040	14	0.14
Ethyl Benzene	2.2	0.025	68	0.76
m,p-Xylene	2.2	0.027	220	2.7
o-Xylene	2.2	0.027	86	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10082 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1204STFRAN-012712 Blank

Lab ID#: 1202124-16B

VOC BY PASSIVE SAMPLER

File Name:	**6020843**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 9:12:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 04:10 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	65	0.52
Methylene Chloride	35	0.34	490	4.8
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	25	0.26
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	130	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	25	0.28
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.1	0.068
m,p-Xylene	2.2	0.027	12	0.15
o-Xylene	2.2	0.027	4.8	0.060
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10082 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1102WABASH-012712

Lab ID#: 1202124-17A

VOC BY PASSIVE SAMPLER

File Name:	**6020846**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:29:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 05:50 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	550 E	4.4 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	360	3.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	290	4.7
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	40	0.40
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	160	2.0
Carbon Tetrachloride	3.1	0.030	17	0.16
Benzene	16	0.15	580	5.5
1,2-Dichloroethane	2.0	0.017	52	0.44
Heptane	20	0.22	350	3.8
Trichloroethene	2.7	0.024	19	0.17
Toluene	4.0	0.045	890 E	10 E
Tetrachloroethene	4.0	0.040	14	0.14
Ethyl Benzene	2.2	0.025	110	1.3
m,p-Xylene	2.2	0.027	360	4.5
o-Xylene	2.2	0.027	130	1.6
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10109 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1102WABASH-012712 Blank

Lab ID#: 1202124-17B

VOC BY PASSIVE SAMPLER

File Name:	**6020845**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:29:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 05:16 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	41	0.33
Methylene Chloride	35	0.34	54	0.53
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	30	0.32
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.5
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	22	0.25
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.4	0.072
m,p-Xylene	2.2	0.027	18	0.22
o-Xylene	2.2	0.027	5.4	0.067
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10109 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-717MATT-012712

Lab ID#: 1202124-18A

VOC BY PASSIVE SAMPLER

File Name:	**6020848**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 06:55 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	>13000 S	>100 S
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	380	4.0
2-Butanone (Methyl Ethyl Ketone)	59	0.95	390	6.3
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	60	0.60
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	140	1.8
Carbon Tetrachloride	3.1	0.030	9.6	0.093
Benzene	16	0.15	300	2.8
1,2-Dichloroethane	2.0	0.017	33	0.28
Heptane	20	0.22	130	1.4
Trichloroethene	2.7	0.024	31	0.27
Toluene	4.0	0.046	800 E	9.1 E
Tetrachloroethene	4.0	0.040	240	2.4
Ethyl Benzene	2.2	0.025	110	1.2
m,p-Xylene	2.2	0.028	350	4.3
o-Xylene	2.2	0.027	140	1.7
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

S = Saturated peak; data reported as estimated.
E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10075 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-717MATT-012712 Blank

Lab ID#: 1202124-18B

VOC BY PASSIVE SAMPLER

File Name:	**6020847**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 06:22 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	39	0.31
Methylene Chloride	35	0.34	46	0.45
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	20	0.21
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	180	1.7
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	22	0.24
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	4.9	0.055
m,p-Xylene	2.2	0.028	18	0.22
o-Xylene	2.2	0.027	3.8	0.047
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10075 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-717MATT-012712

Lab ID#: 1202124-19A

VOC BY PASSIVE SAMPLER

File Name:	**6020850**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:42:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 08:01 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	83	0.60
Methylene Chloride	35	0.26	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	400	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	75	0.52
Carbon Tetrachloride	3.1	0.024	5.4	0.042
Benzene	16	0.11	180	1.2
1,2-Dichloroethane	2.0	0.015	4.2	0.032
Heptane	20	0.16	77	0.60
Trichloroethene	2.7	0.020	6.4	0.047
Toluene	4.0	0.030	380	2.8
Tetrachloroethene	4.0	0.033	11	0.091
Ethyl Benzene	2.2	0.018	52	0.44
m,p-Xylene	2.2	0.019	180	1.5
o-Xylene	2.2	0.020	71	0.65
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-717MATT-012712 Blank

Lab ID#: 1202124-19B

VOC BY PASSIVE SAMPLER

File Name:	**6020849**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:42:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 07:29 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	54	0.39
Methylene Chloride	35	0.26	43	0.32
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	27	0.20
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	74	0.51
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	18	0.14
Tetrachloroethene	4.0	0.033	Not Detected	Not Detected
Ethyl Benzene	2.2	0.018	4.5	0.038
m,p-Xylene	2.2	0.019	12	0.10
o-Xylene	2.2	0.020	3.6	0.033
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1257OHIO-012712

Lab ID#: 1202124-20A

VOC BY PASSIVE SAMPLER

File Name:	**6020912**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:54:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 02:59 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	3900 E	32 E
Methylene Chloride	35	0.34	42	0.41
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	450	4.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	2100 E	34 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	650	6.5
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	260	3.4
Carbon Tetrachloride	3.1	0.030	7.4	0.072
Benzene	16	0.15	1000 E	9.8 E
1,2-Dichloroethane	2.0	0.017	92	0.79
Heptane	20	0.22	320	3.5
Trichloroethene	2.7	0.024	81	0.71
Toluene	16	0.18	8200 E	93 E
Tetrachloroethene	4.0	0.040	79	0.80
Ethyl Benzene	2.2	0.025	1100 E	12 E
m,p-Xylene	2.2	0.028	1900 E	24 E
o-Xylene	2.2	0.027	610	7.6
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Toluene was reported from file #6021010, analyzed on 2/10/12 with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10074 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1257OHIO-012712 Blank

Lab ID#: 1202124-20B

VOC BY PASSIVE SAMPLER

File Name:	**6020911**	**Date of Extraction: NA**	**Date of Collection: 2/3/12 2:54:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 02:26 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	170	1.3
Methylene Chloride	35	0.34	510	5.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	27	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.95	72	1.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	3.0	0.030
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	24	0.28
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.6	0.063
m,p-Xylene	2.2	0.028	15	0.19
o-Xylene	2.2	0.027	4.0	0.050
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10074 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202124-21A

VOC BY PASSIVE SAMPLER

File Name:	**6020812**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 10:52 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0065	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.16	Not Detected	Not Detected
Methylene Chloride	35	0.30	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.16	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Hexane	18	0.16	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.82	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.016	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.025	Not Detected	Not Detected
Cyclohexane	17	0.19	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.026	Not Detected	Not Detected
Benzene	16	0.13	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.18	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.039	Not Detected	Not Detected
Tetrachloroethene	4.0	0.035	Not Detected	Not Detected
Ethyl Benzene	2.2	0.021	Not Detected	Not Detected
m,p-Xylene	2.2	0.024	Not Detected	Not Detected
o-Xylene	2.2	0.024	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.013	Not Detected	Not Detected

Temperature = 69.8F , duration time = 11736 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202124-21B

VOC BY PASSIVE SAMPLER

File Name:	**6020909**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 01:20 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0065	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.16	Not Detected	Not Detected
Methylene Chloride	35	0.30	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.16	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Hexane	18	0.16	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.82	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.016	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.025	Not Detected	Not Detected
Cyclohexane	17	0.19	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.026	Not Detected	Not Detected
Benzene	16	0.13	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.18	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.039	Not Detected	Not Detected
Tetrachloroethene	4.0	0.035	Not Detected	Not Detected
Ethyl Benzene	2.2	0.021	Not Detected	Not Detected
m,p-Xylene	2.2	0.024	Not Detected	Not Detected
o-Xylene	2.2	0.024	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.013	Not Detected	Not Detected

Temperature = 69.8F , duration time = 11736 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202124-21C

VOC BY PASSIVE SAMPLER

File Name:	**6021006**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:56 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0065	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.16	Not Detected	Not Detected
Methylene Chloride	35	0.30	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.16	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Hexane	18	0.16	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.82	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.016	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.025	Not Detected	Not Detected
Cyclohexane	17	0.19	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.026	Not Detected	Not Detected
Benzene	16	0.13	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.18	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.039	Not Detected	Not Detected
Tetrachloroethene	4.0	0.035	Not Detected	Not Detected
Ethyl Benzene	2.2	0.021	Not Detected	Not Detected
m,p-Xylene	2.2	0.024	Not Detected	Not Detected
o-Xylene	2.2	0.024	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.013	Not Detected	Not Detected

Temperature = 69.8F , duration time = 11736 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202124-22A

VOC BY PASSIVE SAMPLER

File Name:	**6020809**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 09:23 AM**

Compound	**%Recovery**
Vinyl Chloride	111
1,1-Dichloroethene	85
Acetone	92
Methylene Chloride	82
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	95
Hexane	94
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	97
Chloroform	88
1,1,1-Trichloroethane	90
Cyclohexane	98
Carbon Tetrachloride	104
Benzene	86
1,2-Dichloroethane	83
Heptane	82
Trichloroethene	99
Toluene	92
Tetrachloroethene	100
Ethyl Benzene	101
m,p-Xylene	95
o-Xylene	100
1,1-Dichloroethane	90

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202124-22B

VOC BY PASSIVE SAMPLER

File Name:	**6020905**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 11:01 AM**

Compound	**%Recovery**
Vinyl Chloride	115
1,1-Dichloroethene	85
Acetone	83
Methylene Chloride	83
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	93
Hexane	99
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	97
Chloroform	92
1,1,1-Trichloroethane	94
Cyclohexane	103
Carbon Tetrachloride	110
Benzene	88
1,2-Dichloroethane	87
Heptane	87
Trichloroethene	94
Toluene	92
Tetrachloroethene	99
Ethyl Benzene	98
m,p-Xylene	91
o-Xylene	97
1,1-Dichloroethane	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV High Split

Lab ID#: 1202124-22C

VOC BY PASSIVE SAMPLER

File Name:	**6021003**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**4.00**		**Date of Analysis: 2/10/12 11:27 AM**

Compound	**%Recovery**
Vinyl Chloride	122
1,1-Dichloroethene	92
Acetone	82
Methylene Chloride	90
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	102
Hexane	104
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	107
Chloroform	102
1,1,1-Trichloroethane	100
Cyclohexane	108
Carbon Tetrachloride	116
Benzene	92
1,2-Dichloroethane	95
Heptane	96
Trichloroethene	102
Toluene	102
Tetrachloroethene	109
Ethyl Benzene	113
m,p-Xylene	108
o-Xylene	117
1,1-Dichloroethane	101

Temperature = 32.0F , duration time = 0 minutes.
Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1202124-23A
VOC BY PASSIVE SAMPLER

File Name:	**6020810**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 09:55 AM**

Compound	**%Recovery**
Vinyl Chloride	118
1,1-Dichloroethene	94
Acetone	81
Methylene Chloride	83
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	110
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	100
Chloroform	93
1,1,1-Trichloroethane	94
Cyclohexane	104
Carbon Tetrachloride	108
Benzene	89
1,2-Dichloroethane	85
Heptane	84
Trichloroethene	99
Toluene	89
Tetrachloroethene	97
Ethyl Benzene	90
m,p-Xylene	87
o-Xylene	93
1,1-Dichloroethane	93

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202124-23AA

VOC BY PASSIVE SAMPLER

File Name:	**6020811**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/8/12 10:23 AM**

Compound	**%Recovery**
Vinyl Chloride	120
1,1-Dichloroethene	95
Acetone	97
Methylene Chloride	85
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	110
Hexane	95
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	103
Chloroform	88
1,1,1-Trichloroethane	91
Cyclohexane	100
Carbon Tetrachloride	98
Benzene	89
1,2-Dichloroethane	85
Heptane	83
Trichloroethene	103
Toluene	93
Tetrachloroethene	98
Ethyl Benzene	93
m,p-Xylene	90
o-Xylene	95
1,1-Dichloroethane	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202124-23B

VOC BY PASSIVE SAMPLER

File Name:	**6020906**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 11:33 AM**

Compound	**%Recovery**
Vinyl Chloride	115
1,1-Dichloroethene	90
Acetone	85
Methylene Chloride	83
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	106
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	97
Chloroform	92
1,1,1-Trichloroethane	97
Cyclohexane	103
Carbon Tetrachloride	109
Benzene	90
1,2-Dichloroethane	88
Heptane	88
Trichloroethene	97
Toluene	94
Tetrachloroethene	101
Ethyl Benzene	100
m,p-Xylene	97
o-Xylene	105
1,1-Dichloroethane	94

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202124-23BB

VOC BY PASSIVE SAMPLER

File Name:	**6020907**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 12:01 PM**

Compound	**%Recovery**
Vinyl Chloride	116
1,1-Dichloroethene	91
Acetone	107
Methylene Chloride	85
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	106
Hexane	98
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	100
Chloroform	88
1,1,1-Trichloroethane	94
Cyclohexane	103
Carbon Tetrachloride	97
Benzene	94
1,2-Dichloroethane	87
Heptane	88
Trichloroethene	100
Toluene	96
Tetrachloroethene	101
Ethyl Benzene	100
m,p-Xylene	99
o-Xylene	105
1,1-Dichloroethane	93

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1202124-23C
VOC BY PASSIVE SAMPLER

File Name:	**6021004**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:00 PM**

Compound	**%Recovery**
Vinyl Chloride	128
1,1-Dichloroethene	99
Acetone	81
Methylene Chloride	91
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	112
Hexane	103
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	103
Chloroform	97
1,1,1-Trichloroethane	102
Cyclohexane	110
Carbon Tetrachloride	108
Benzene	92
1,2-Dichloroethane	90
Heptane	94
Trichloroethene	99
Toluene	93
Tetrachloroethene	100
Ethyl Benzene	96
m,p-Xylene	94
o-Xylene	99
1,1-Dichloroethane	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1202124-23CC
VOC BY PASSIVE SAMPLER

File Name:	**6021005**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:28 PM**

Compound	**%Recovery**
Vinyl Chloride	133 Q
1,1-Dichloroethene	102
Acetone	93
Methylene Chloride	95
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	112
Hexane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	108
Chloroform	93
1,1,1-Trichloroethane	99
Cyclohexane	108
Carbon Tetrachloride	94
Benzene	93
1,2-Dichloroethane	89
Heptane	91
Trichloroethene	100
Toluene	94
Tetrachloroethene	98
Ethyl Benzene	96
m,p-Xylene	93
o-Xylene	98
1,1-Dichloroethane	102

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	95	70-130

PASSIVE SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

Project Manager: Kevin Reed (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith Email: williamsmk@cdmsmith.com merfield@cdmsmith.com
Address: 345 Riverview, Ste 520 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-264-3025

Project Info:
P.O. #:
Project #: 23915-88707
Project Name: NIC Sitewide VI

Turn Around Time: ☒ Normal ☐ Rush _____ specify

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	OAP-NIC-DUNBAR PARK-012512		01/25/12	11:30	02/02/12	15:06	TO-17	☐	☒	☐	☐
02A	OAP-NIC-DUNBAR PARK Q-012512		01/25/12	11:30	02/02/12	15:06	TO-17	☐	☒	☐	☐
03A	OAP-NIC-1435 ST FRAN-012612		01/26/12	12:30	02/02/12	14:44	TO-17	☐	☒	☐	☐
04A	IAP-NIC-1326 IND-012612		01/26/12	14:00	02/02/12	14:52	TO-17	☒	☐	☐	☐
05A	IAP-NIC-1438 EMPORIA-012612		01/26/12	14:17	02/02/12	14:28	TO-17	☒	☐	☐	☐
06A	IAP-NIC-1441 ST FRAN-012612		01/26/12	14:33	02/02/12	14:41	TO-17	☒	☐	☐	☐
07A	IAP-NIC-1511 EMPORIA-012612		01/26/12	14:53	02/02/12	14:33	TO-17	☒	☐	☐	☐
08A	IAP-NIC-1240 MATH-012612		01/26/12	15:00	02/02/12	15:52	TO-17	☒	☐	☐	☐
09A	OAP-NIC-1611 EMPORIA-012612		01/26/12	15:09	02/02/12	14:36	TO-17 (MW)	☒	☒	☐	☐
10A	IAP-NIC-~~1511~~ 1155 MATT-012612 (MW)		01/26/12	16:15	02/02/12	15:16	TO-17	☒	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/3/12 15:53	B. W. Smith AIC	2/4/12 1105
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No None	[illegible]

PASSIVE SAMPLE COLLECTION

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Project Manager: Kevin Reed (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
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Address: 345 Riverview, Ste 570 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-264-3025

Project Info:
P.O. #
Project # 2395-88704
Project Name: NIC Site-wide VI

Turn Around Time: ☒ Normal ☐ Rush _____ specify

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
11A	IAP-NIC-1155MATTQ-012612		01/26/12	15:15	02/02/12	15:16	TO-17	☒	☐	☐	☐
12A	IAP-NIC-93220ABASH-012612		01/26/12	15:28	02/02/12	15:46	TO-17	☒	☐	☐	☐
13A	IAP-NIC-1108MATT-012612		01/26/12	15:30	02/02/12	15:39	TO-17	☒	☐	☐	☐
14A	IAP-NIC-1035CLEV-012612		01/26/12	15:45	02/02/12	15:57	TO-17	☒	☐	☐	☐
15A	IAP-NIC-1048MATT-012612		01/26/12	16:50	02/02/12	15:42	TO-17	☒	☐	☐	☐
16A	IAP-NIC-1204STFRAN-012712		01/27/12	09:10	02/03/12	09:12	TO-17	☒	☐	☐	☐
17A	IAP-NIC-1102WABASH-012712		01/27/12	14:00	02/03/12	14:29	TO-17	☒	☐	☐	☐
18A	IAP-NIC-717MATT-012712		01/27/12	14:45	02/03/12	14:40	TO-17	☒	☐	☐	☐
19A	OAP-NIC-717MATT-012712		01/27/12	14:46	02/03/12	14:42	TO-17	☐	☒	☐	☐
20A	IAP-NIC-1257OHIO-012712		01/27/12	15:00	02/03/12	14:54	TO-17	☒	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/3/12 15:53	Bill Sutterlen ATL	2/4/12 1105
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No (None)	[illegible]

Air Toxics LTD.
Laboratory Services Since 1989

2/17/2012
Ms. Monica Williams
CDM
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site - wide VI
Project #: 2395-88709
Workorder #: 1202139

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 2/6/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202139

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88709 NIC Site - wide VI
DATE RECEIVED:	02/06/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/17/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAS-NIC-UMC 109C-020212	Modified TO-15	8.0 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 02/17/12

Laboratory Director

Certfication 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 Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
CDM
Workorder# 1202139

One 6 Liter Summa Canister (100% Certified) sample was received on February 06, 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.

Requirement	***TO-15***	***ATL Modifications***
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

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

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 LTD.
Laboratory Services Since 1989

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

Client Sample ID: IAS-NIC-UMC 109C-020212

Lab ID#: 1202139-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.52	0.90	2.6
Chloromethane	0.18	0.38 J	0.38	0.78 J
Freon 11	0.18	0.25	1.0	1.4
Ethanol	0.92	24	1.7	46
Acetone	0.92	20	2.2	46
2-Propanol	0.92	1.5	2.2	3.7
Carbon Disulfide	0.92	1.9	2.8	6.0
Benzene	0.18	0.24	0.58	0.78
Toluene	0.18	1.7	0.69	6.3
m,p-Xylene	0.18	0.38	0.79	1.6

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Client Sample ID: IAS-NIC-UMC 109C-020212

Lab ID#: 1202139-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020719**	**Date of Collection:**	**2/2/12 10:44:00 AM**
Dil. Factor:	**1.83**	**Date of Analysis:**	**2/8/12 07:49 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.52	0.90	2.6
Freon 114	0.18	Not Detected	1.3	Not Detected
Chloromethane	0.18	0.38 J	0.38	0.78 J
Vinyl Chloride	0.18	Not Detected	0.47	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.18	Not Detected	0.71	Not Detected
Chloroethane	0.92	Not Detected	2.4	Not Detected
Freon 11	0.18	0.25	1.0	1.4
Ethanol	0.92	24	1.7	46
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Acetone	0.92	20	2.2	46
2-Propanol	0.92	1.5	2.2	3.7
Carbon Disulfide	0.92	1.9	2.8	6.0
3-Chloropropene	0.92	Not Detected	2.9	Not Detected
Methylene Chloride	0.37	Not Detected UJ	1.3	Not Detected UJ
Methyl tert-butyl ether	0.18	Not Detected	0.66	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Hexane	0.18	Not Detected	0.64	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.74	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.92	Not Detected	2.7	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Tetrahydrofuran	0.92	Not Detected UJ	2.7	Not Detected UJ
Chloroform	0.18	Not Detected	0.89	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	1.0	Not Detected
Cyclohexane	0.18	Not Detected	0.63	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.92	Not Detected	4.3	Not Detected
Benzene	0.18	0.24	0.58	0.78
1,2-Dichloroethane	0.18	Not Detected	0.74	Not Detected
Heptane	0.18	Not Detected	0.75	Not Detected
Trichloroethene	0.18	Not Detected	0.98	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.84	Not Detected
1,4-Dioxane	0.18	Not Detected	0.66	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.83	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.75	Not Detected
Toluene	0.18	1.7	0.69	6.3
trans-1,3-Dichloropropene	0.18	Not Detected	0.83	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	1.0	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAS-NIC-UMC 109C-020212

Lab ID#: 1202139-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020719**	**Date of Collection:**	**2/2/12 10:44:00 AM**
Dil. Factor:	**1.83**	**Date of Analysis:**	**2/8/12 07:49 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.92	Not Detected	3.7	Not Detected
Dibromochloromethane	0.18	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.84	Not Detected
Ethyl Benzene	0.18	Not Detected	0.79	Not Detected
m,p-Xylene	0.18	0.38	0.79	1.6
o-Xylene	0.18	Not Detected	0.79	Not Detected
Styrene	0.18	Not Detected	0.78	Not Detected
Bromoform	0.18	Not Detected	1.9	Not Detected
Cumene	0.18	Not Detected	0.90	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.90	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.90	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.90	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.90	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.95	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.92	Not Detected	6.8	Not Detected
Hexachlorobutadiene	0.92	Not Detected	9.8	Not Detected

J = Estimated value due to bias in the CCV.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	112	70-130

Air Toxics LTD.
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Client Sample ID: Lab Blank

Lab ID#: 1202139-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020709**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 02:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected UJ	0.21	Not Detected UJ
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected UJ	0.69	Not Detected UJ
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected UJ	1.5	Not Detected UJ
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202139-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020709**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 02:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: CCV

Lab ID#: 1202139-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 09:03 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	80
Chloromethane	64 Q
Vinyl Chloride	74
1,3-Butadiene	72
Bromomethane	79
Chloroethane	75
Freon 11	91
Ethanol	73
Freon 113	77
1,1-Dichloroethene	75
Acetone	73
2-Propanol	72
Carbon Disulfide	77
3-Chloropropene	75
Methylene Chloride	68 Q
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	75
Hexane	71
1,1-Dichloroethane	76
2-Butanone (Methyl Ethyl Ketone)	74
cis-1,2-Dichloroethene	75
Tetrahydrofuran	69 Q
Chloroform	83
1,1,1-Trichloroethane	90
Cyclohexane	77
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	70
Benzene	74
1,2-Dichloroethane	88
Heptane	73
Trichloroethene	76
1,2-Dichloropropane	72
1,4-Dioxane	77
Bromodichloromethane	91
cis-1,3-Dichloropropene	78
4-Methyl-2-pentanone	76
Toluene	76
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	79
Tetrachloroethene	74

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202139-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 09:03 AM**	

Compound	%Recovery
2-Hexanone	76
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	83
Chlorobenzene	74
Ethyl Benzene	76
m,p-Xylene	78
o-Xylene	77
Styrene	82
Bromoform	87
Cumene	82
1,1,2,2-Tetrachloroethane	80
Propylbenzene	81
4-Ethyltoluene	85
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	79
1,4-Dichlorobenzene	78
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	80
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	95

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	88	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202139-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 11:27 AM**	

Compound	%Recovery
Freon 12	120
Freon 114	107
Chloromethane	88
Vinyl Chloride	105
1,3-Butadiene	101
Bromomethane	101
Chloroethane	105
Freon 11	125
Ethanol	85
Freon 113	108
1,1-Dichloroethene	113
Acetone	106
2-Propanol	105
Carbon Disulfide	129
3-Chloropropene	98
Methylene Chloride	91
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	116
Hexane	99
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	105
Tetrahydrofuran	96
Chloroform	117
1,1,1-Trichloroethane	127
Cyclohexane	108
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	90
Benzene	103
1,2-Dichloroethane	118
Heptane	100
Trichloroethene	106
1,2-Dichloropropane	100
1,4-Dioxane	114
Bromodichloromethane	129
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	109
Toluene	104
trans-1,3-Dichloropropene	126
1,1,2-Trichloroethane	110
Tetrachloroethene	103

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202139-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 11:27 AM**	

Compound	%Recovery
2-Hexanone	112
Dibromochloromethane	129
1,2-Dibromoethane (EDB)	120
Chlorobenzene	105
Ethyl Benzene	105
m,p-Xylene	112
o-Xylene	109
Styrene	114
Bromoform	116
Cumene	115
1,1,2,2-Tetrachloroethane	114
Propylbenzene	115
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	117
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	124
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	145 Q
Hexachlorobutadiene	141 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202139-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020706**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 12:12 PM**

Compound	%Recovery
Freon 12	115
Freon 114	105
Chloromethane	85
Vinyl Chloride	102
1,3-Butadiene	99
Bromomethane	104
Chloroethane	104
Freon 11	122
Ethanol	99
Freon 113	106
1,1-Dichloroethene	111
Acetone	104
2-Propanol	104
Carbon Disulfide	128
3-Chloropropene	95
Methylene Chloride	94
Methyl tert-butyl ether	113
trans-1,2-Dichloroethene	116
Hexane	97
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	105
Tetrahydrofuran	94
Chloroform	115
1,1,1-Trichloroethane	124
Cyclohexane	106
Carbon Tetrachloride	84
2,2,4-Trimethylpentane	91
Benzene	102
1,2-Dichloroethane	117
Heptane	98
Trichloroethene	108
1,2-Dichloropropane	102
1,4-Dioxane	112
Bromodichloromethane	128
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	109
Toluene	104
trans-1,3-Dichloropropene	126
1,1,2-Trichloroethane	111
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202139-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e020706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/7/12 12:12 PM**	

Compound	**%Recovery**
2-Hexanone	113
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	119
Chlorobenzene	105
Ethyl Benzene	105
m,p-Xylene	111
o-Xylene	109
Styrene	114
Bromoform	116
Cumene	114
1,1,2,2-Tetrachloroethane	112
Propylbenzene	114
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	130
Hexachlorobutadiene	131 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	89	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

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

Project Manager: Kevin Rood (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith — Email: martichbj@cdmsmith.com, williamsmk@cdmsmith.com
Address: 345 Riverview, Ste 520 — City: Wichita — State: KS — Zip: 67203
Phone: 316-660-6700 — Fax: 316-264-3025

Project Info:
P.O. #
Project #: 2395-88709
Project Name: NIC Site-wide VI

Turn Around Time:
☒ Normal
☐ Rush
specify

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)
01A	IAS-NIC-UMC109C-020212	34232	02/02/12	1044	TO-15	28.5	-8		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/3/12 0950	[signature] ATL	2/6/12 0800
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 #
	FED EX		NA	Good	Yes No None	1202139

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

2/22/2012
Ms. Monica Williams
CDM
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-wid VI
Project #: 2395.88707
Workorder #: 1202197

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 2/8/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Passive Ultra III (TD) 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202197

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395.88707 NIC Site-wid VI
DATE RECEIVED:	02/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/22/2012		

FRACTION #	NAME	TEST
01A	IAP-NIC-611NEWYORK-012712	Passive Ultra III (TD)
01B	IAP-NIC-611NEWYORK-012712 Blank	Passive Ultra III (TD)
02A	OAP-NIC-1737PARK-012812	Passive Ultra III (TD)
02B	OAP-NIC-1737PARK-012812 Blank	Passive Ultra III (TD)
03A	IAP-NIC-1318INDI-012812	Passive Ultra III (TD)
03B	IAP-NIC-1318INDI-012812 Blank	Passive Ultra III (TD)
04A	IAP-NIC-1324INDI-012812	Passive Ultra III (TD)
04B	IAP-NIC-1324INDI-012812 Blank	Passive Ultra III (TD)
05A	IAP-NIC-1132CLEV-012812	Passive Ultra III (TD)
05B	IAP-NIC-1132CLEV-012812 Blank	Passive Ultra III (TD)
06A	IAP-NIC-1143CLEV-012812	Passive Ultra III (TD)
06B	IAP-NIC-1143CLEV-012812 Blank	Passive Ultra III (TD)
07A	IAP-NIC-1143CLEVQ-012812	Passive Ultra III (TD)
07B	IAP-NIC-1143CLEVQ-012812 Blank	Passive Ultra III (TD)
08A	IAP-NIC-1347MATT-012812	Passive Ultra III (TD)
08B	IAP-NIC-1347MATT-012812 Blank	Passive Ultra III (TD)
09A	IAP-NIC-1126MATT-012812	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202197

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395.88707 NIC Site-wid VI
DATE RECEIVED:	02/08/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/22/2012		

FRACTION #	NAME	TEST
09B	IAP-NIC-1126MATT-012812 Blank	Passive Ultra III (TD)
10A	OAP-NIC-17THOHIO-012812	Passive Ultra III (TD)
10B	OAP-NIC-17THOHIO-012812 Blank	Passive Ultra III (TD)
11A	OAP-NIC-1502E10TH-012612	Passive Ultra III (TD)
11B	OAP-NIC-1502E10TH-012612 Blank	Passive Ultra III (TD)
12A	OAP-NIC-12THWELL-013112	Passive Ultra III (TD)
12B	OAP-NIC-12THWELL-013112 Blank	Passive Ultra III (TD)
13A	IAP-NIC-515MATH-013112	Passive Ultra III (TD)
13B	IAP-NIC-515MATH-013112 Blank	Passive Ultra III (TD)
14A	IAP-NIC-515MATHQ-013112	Passive Ultra III (TD)
14B	IAP-NIC-515MATHQ-013112 Blank	Passive Ultra III (TD)
15A	Lab Blank	Passive Ultra III (TD)
15B	Lab Blank	Passive Ultra III (TD)
16A	CCV	Passive Ultra III (TD)
16B	CCV High Split	Passive Ultra III (TD)
17A	LCS	Passive Ultra III (TD)
17AA	LCSD	Passive Ultra III (TD)
17B	LCS	Passive Ultra III (TD)
17BB	LCSD	Passive Ultra III (TD)

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 02/22/12

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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
Passive TO-17 GC/MS
CDM
Workorder# 1202197

Fourteen Ultra III (TD) samples were received on February 08, 2012. The laboratory transferred the sample sorbent bed and the associated blank sorbent bed each to separate thermal desorption tubes. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The actual exposure time and temperature were used to calculate sample concentrations and reporting limits. An exposure time of 17,498 minutes and a temperature of 70F was used to calculate concentrations and reporting limits for the associated Lab Blanks.

Sample IAP-NIC-1324INDI-012812 had mass concentrations for Toluene well above the standard calibration range at saturated levels. To provide reliable results, the sample was analyzed at a higher split than the initial calibration. The result for Toluene was reported from the high split analysis resulting in a dilution of 4 to 1, while the remaining compounds were reported from the original analysis. The reporting limit and calibration range were raised accordingly.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

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 Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-611NEWYORK-012712

Lab ID#: 1202197-01A/01B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.038	Not Detected	0.026	0.038	
1,2-Dichloroethane	0.38	Not Detected	0.015	0.38	
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	0.84	3.8	
Acetone	2.5	0.18	0.34	2.3	
Benzene	2.2	1.2	0.26	1.0	
Carbon Tetrachloride	0.13	Not Detected	0.026	0.13	
Chloroform	0.48	Not Detected	0.021	0.48	
Cyclohexane	1.1	Not Detected	0.20	1.1	
Ethyl Benzene	0.69	0.062	0.044	0.63	
Heptane	1.3	Not Detected	0.19	1.3	
Hexane	2.5	0.18	0.34	2.3	
m,p-Xylene	2.7	0.16	0.048	2.5	
Methylene Chloride	Not Detected	0.67	0.60	Not Detected	
o-Xylene	0.95	0.052	0.048	0.90	
Tetrachloroethene	0.13	Not Detected	0.036	0.13	
Toluene	5.2	0.22	0.080	5.0	
Trichloroethene	0.10	Not Detected	0.021	0.10	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1737PARK-012812

Lab ID#: 1202197-02A/02B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.032	Not Detected	0.015	0.032	
2-Butanone (Methyl Ethyl Ketone)	0.72	Not Detected	0.37	0.72	
Acetone	0.57	0.37	0.34	Not Detected	
Benzene	1.3	0.69	0.22	0.61	
Carbon Tetrachloride	0.047	Not Detected	0.023	0.047	
Cyclohexane	0.52	Not Detected	0.12	0.52	
Ethyl Benzene	0.50	0.044	0.036	0.46	
Heptane	0.61	Not Detected	0.15	0.61	
Hexane	1.6	0.19	0.26	1.4	
m,p-Xylene	1.9	0.080	0.036	1.8	
Methylene Chloride	0.54	3.8	0.50	Not Detected	
o-Xylene	0.87	0.030	0.040	0.84	
Tetrachloroethene	0.087	Not Detected	0.032	0.087	
Toluene	3.3	0.12	0.058	3.2	
Trichloroethene	0.062	Not Detected	0.019	0.062	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1318INDI-012812

Lab ID#: 1202197-03A/03B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.036	Not Detected	0.029	0.036	
1,2-Dichloroethane	0.23	Not Detected	0.017	0.23	
2-Butanone (Methyl Ethyl Ketone)	12	Not Detected	0.95	12	E
Acetone	18	0.89	0.38	17	E
Benzene	4.2	1.8	0.30	2.4	
Carbon Tetrachloride	0.13	Not Detected	0.030	0.13	
Chloroform	0.69	Not Detected	0.024	0.69	
Cyclohexane	2.6	Not Detected	0.22	2.6	
Ethyl Benzene	2.8	0.067	0.048	2.7	
Heptane	4.6	Not Detected	0.21	4.6	
Hexane	5.5	0.38	0.38	5.1	
m,p-Xylene	11	0.11	0.054	11	E
Methylene Chloride	0.50	4.1	0.68	Not Detected	
o-Xylene	4.4	0.046	0.054	4.4	
Tetrachloroethene	0.23	Not Detected	0.040	0.23	
Toluene	18	0.23	0.090	18	E
Trichloroethene	0.31	Not Detected	0.024	0.31	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1324INDI-012812

Lab ID#: 1202197-04A/04B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.72	Not Detected	0.017	0.72	
2-Butanone (Methyl Ethyl Ketone)	21	Not Detected	0.95	21	E
Acetone	9.1	0.40	0.38	8.7	E
Benzene	11	1.3	0.30	9.7	E
Carbon Tetrachloride	0.047	Not Detected	0.030	0.047	
Chloroform	0.81	Not Detected	0.024	0.81	
Cyclohexane	13	Not Detected	0.22	13	E
Ethyl Benzene	10	0.057	0.050	9.9	E
Heptane	12	Not Detected	0.22	12	E
Hexane	17	0.26	0.38	17	E
m,p-Xylene	42	0.11	0.054	42	E
Methylene Chloride	0.58	4.0	0.68	Not Detected	
o-Xylene	14	0.045	0.054	14	E
Tetrachloroethene	0.18	Not Detected	0.040	0.18	
Toluene	87	0.21	0.36	87	E
Trichloroethene	0.53	Not Detected	0.024	0.53	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1132CLEV-012812

Lab ID#: 1202197-05A/05B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.037	Not Detected	0.029	0.037	
1,2-Dichloroethane	0.16	Not Detected	0.017	0.16	
2-Butanone (Methyl Ethyl Ketone)	14	Not Detected	0.95	14	E
Acetone	5.2	0.37	0.38	4.8	E
Benzene	3.3	0.96	0.30	2.3	
Carbon Tetrachloride	0.16	Not Detected	0.030	0.16	
Chloroform	1.3	Not Detected	0.024	1.3	
Cyclohexane	1.6	Not Detected	0.22	1.6	
Ethyl Benzene	1.2	0.052	0.050	1.1	
Heptane	2.5	Not Detected	0.22	2.5	
Hexane	3.6	0.26	0.38	3.3	
m,p-Xylene	4.1	0.17	0.056	3.9	
Methylene Chloride	0.53	4.6	0.68	Not Detected	
o-Xylene	1.7	0.050	0.054	1.6	
Tetrachloroethene	0.88	Not Detected	0.040	0.88	
Toluene	9.5	0.22	0.092	9.3	E
Trichloroethene	0.11	Not Detected	0.024	0.11	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1143CLEV-012812

Lab ID#: 1202197-06A/06B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.031	Not Detected	0.029	0.031	
1,2-Dichloroethane	0.12	Not Detected	0.017	0.12	
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	0.95	20	E
Acetone	9.1	0.52	0.38	8.6	E
Benzene	3.2	1.2	0.30	2.0	
Carbon Tetrachloride	0.085	Not Detected	0.030	0.085	
Chloroform	0.57	Not Detected	0.024	0.57	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	2.0	0.11	0.050	1.9	
Heptane	1.8	Not Detected	0.22	1.8	
Hexane	3.1	0.38	0.38	2.7	
m,p-Xylene	8.4	0.21	0.056	8.2	
Methylene Chloride	2.2	4.9	0.68	Not Detected	
o-Xylene	3.3	0.081	0.056	3.2	
Tetrachloroethene	0.31	Not Detected	0.040	0.31	
Toluene	12	0.28	0.092	12	E
Trichloroethene	0.15	Not Detected	0.024	0.15	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1143CLEVQ-012812

Lab ID#: 1202197-07A/07B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.032	Not Detected	0.029	0.032	
1,2-Dichloroethane	0.12	Not Detected	0.017	0.12	
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	0.95	20	E
Acetone	8.6	0.42	0.38	8.2	E
Benzene	3.2	1.3	0.30	1.9	
Carbon Tetrachloride	0.078	Not Detected	0.030	0.078	
Chloroform	0.57	Not Detected	0.024	0.57	
Cyclohexane	1.5	Not Detected	0.22	1.5	
Ethyl Benzene	2.0	0.070	0.050	1.9	
Heptane	1.8	Not Detected	0.22	1.8	
Hexane	3.1	0.41	0.38	2.7	
m,p-Xylene	8.3	0.13	0.056	8.2	
Methylene Chloride	0.54	2.4	0.68	Not Detected	
o-Xylene	3.1	0.054	0.056	3.0	
Tetrachloroethene	0.29	Not Detected	0.040	0.29	
Toluene	12	0.23	0.092	12	E
Trichloroethene	0.15	Not Detected	0.024	0.15	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1347MATT-012812

Lab ID#: 1202197-08A/08B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.039	Not Detected	0.029	0.039	
1,2-Dichloroethane	0.22	Not Detected	0.017	0.22	
2-Butanone (Methyl Ethyl Ketone)	13	Not Detected	0.96	13	E
Acetone	11	0.47	0.38	10	E
Benzene	2.7	1.0	0.30	1.7	
Carbon Tetrachloride	0.21	Not Detected	0.030	0.21	
Chloroform	2.7	Not Detected	0.024	2.7	
Cyclohexane	2.1	Not Detected	0.22	2.1	
Ethyl Benzene	2.0	0.066	0.050	1.9	
Heptane	2.6	Not Detected	0.22	2.6	
Hexane	4.2	0.56	0.38	3.6	
m,p-Xylene	5.2	0.10	0.056	5.1	
Methylene Chloride	1.2	5.7	0.70	Not Detected	
o-Xylene	1.8	0.043	0.056	1.8	
Tetrachloroethene	0.16	Not Detected	0.041	0.16	
Toluene	14	0.21	0.092	14	E
Trichloroethene	0.88	Not Detected	0.024	0.88	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1126MATT-012812

Lab ID#: 1202197-09A/09B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.030	Not Detected	0.029	0.030	
1,2-Dichloroethane	0.086	Not Detected	0.017	0.086	
2-Butanone (Methyl Ethyl Ketone)	5.9	Not Detected	0.95	5.9	
Acetone	3.4	0.47	0.38	2.9	
Benzene	3.1	1.5	0.30	1.6	
Carbon Tetrachloride	0.10	Not Detected	0.030	0.10	
Chloroform	3.6	Not Detected	0.024	3.6	
Cyclohexane	0.92	Not Detected	0.22	0.92	
Ethyl Benzene	0.88	0.076	0.050	0.80	
Heptane	1.2	Not Detected	0.22	1.2	
Hexane	2.1	0.62	0.38	1.5	
m,p-Xylene	3.4	0.15	0.056	3.2	
Methylene Chloride	1.2	2.5	0.68	Not Detected	
o-Xylene	1.3	0.044	0.054	1.2	
Tetrachloroethene	0.14	Not Detected	0.040	0.14	
Toluene	5.6	0.28	0.092	5.3	
Trichloroethene	0.088	Not Detected	0.024	0.088	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-17THOHIO-012812

Lab ID#: 1202197-10A/10B

Collection Date: 02/04/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.032	Not Detected	0.021	0.032	
1,2-Dichloroethane	0.056	Not Detected	0.015	0.056	
Acetone	0.62	0.34	0.34	Not Detected	
Benzene	1.6	0.69	0.22	0.91	
Carbon Tetrachloride	0.12	Not Detected	0.024	0.12	
Chloroform	0.061	Not Detected	0.020	0.061	
Cyclohexane	0.85	Not Detected	0.12	0.85	
Ethyl Benzene	0.68	0.046	0.038	0.63	
Heptane	0.94	Not Detected	0.16	0.94	
Hexane	2.3	0.28	0.28	2.0	
m,p-Xylene	2.5	0.074	0.038	2.4	
Methylene Chloride	2.2	1.9	0.52	Not Detected	
o-Xylene	1.1	0.035	0.040	1.1	
Tetrachloroethene	0.20	Not Detected	0.034	0.20	
Toluene	4.0	0.13	0.060	3.9	
Trichloroethene	0.099	Not Detected	0.020	0.099	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1502E10TH-012612

Lab ID#: 1202197-11A/11B

Collection Date: 02/07/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.026	Not Detected	0.012	0.026	
1,2-Dichloroethane	0.047	Not Detected	0.0089	0.047	
2-Butanone (Methyl Ethyl Ketone)	0.22	Not Detected	0.22	0.22	
Acetone	0.52	0.19	0.20	0.33	
Benzene	1.3	0.42	0.13	0.88	
Carbon Tetrachloride	0.11	Not Detected	0.014	0.11	
Chloroform	0.052	0.012	0.024	0.040	
Cyclohexane	0.53	Not Detected	0.069	0.53	
Ethyl Benzene	0.52	0.029	0.022	0.49	
Heptane	0.61	Not Detected	0.091	0.61	
Hexane	1.5	0.15	0.16	1.4	
m,p-Xylene	1.9	0.073	0.022	1.8	
Methylene Chloride	0.24	0.96	0.30	Not Detected	
o-Xylene	0.81	0.023	0.024	0.79	
Tetrachloroethene	0.12	Not Detected	0.019	0.12	
Toluene	3.2	0.073	0.034	3.1	
Trichloroethene	0.071	Not Detected	0.011	0.071	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-12THWELL-013112

Lab ID#: 1202197-12A/12B

Collection Date: 02/07/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.038	Not Detected	0.015	0.038	
2-Butanone (Methyl Ethyl Ketone)	1.6	0.78	0.74	0.82	
Acetone	1.2	0.54	0.34	0.66	
Benzene	1.6	0.92	0.20	0.68	
Carbon Tetrachloride	0.048	Not Detected	0.023	0.048	
Cyclohexane	0.49	Not Detected	0.11	0.49	
Ethyl Benzene	0.69	0.066	0.036	0.62	
Heptane	0.64	Not Detected	0.15	0.64	
Hexane	1.5	0.22	0.26	1.3	
m,p-Xylene	2.5	0.16	0.036	2.3	
Methylene Chloride	0.29	4.2	0.50	Not Detected	
o-Xylene	1.1	0.045	0.038	1.0	
Tetrachloroethene	0.11	Not Detected	0.032	0.11	
Toluene	4.3	0.20	0.058	4.1	
Trichloroethene	0.068	Not Detected	0.019	0.068	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-515MATH-013112

Lab ID#: 1202197-13A/13B

Collection Date: 02/07/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.034	Not Detected	0.029	0.034	
1,2-Dichloroethane	4.0	Not Detected	0.017	4.0	
2-Butanone (Methyl Ethyl Ketone)	21	Not Detected	0.95	21	E
Acetone	9.9	0.53	0.38	9.4	E
Benzene	3.4	1.4	0.30	2.0	
Carbon Tetrachloride	0.12	Not Detected	0.030	0.12	
Chloroform	1.4	Not Detected	0.024	1.4	
Cyclohexane	1.4	Not Detected	0.22	1.4	
Ethyl Benzene	1.4	0.066	0.050	1.3	
Heptane	2.0	Not Detected	0.22	2.0	
Hexane	3.1	0.28	0.38	2.8	
m,p-Xylene	5.5	0.13	0.054	5.4	
Methylene Chloride	Not Detected	5.4	0.68	Not Detected	
o-Xylene	2.2	0.052	0.054	2.1	
Tetrachloroethene	0.19	Not Detected	0.040	0.19	
Toluene	10	0.22	0.090	9.8	E
Trichloroethene	0.17	Not Detected	0.024	0.17	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-515MATHQ-013112

Lab ID#: 1202197-14A/14B

Collection Date: 02/07/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.030	Not Detected	0.029	0.030	
1,2-Dichloroethane	2.6	Not Detected	0.017	2.6	
2-Butanone (Methyl Ethyl Ketone)	10	Not Detected	0.95	10	E
Acetone	10	0.26	0.38	9.7	E
Benzene	3.4	1.1	0.30	2.3	
Carbon Tetrachloride	0.11	Not Detected	0.030	0.11	
Chloroform	1.4	Not Detected	0.024	1.4	
Cyclohexane	1.4	Not Detected	0.22	1.4	
Ethyl Benzene	1.4	0.050	0.050	1.4	
Heptane	2.0	Not Detected	0.22	2.0	
Hexane	3.1	0.34	0.38	2.8	
m,p-Xylene	5.4	0.11	0.054	5.3	
Methylene Chloride	Not Detected	3.0	0.68	Not Detected	
o-Xylene	2.2	0.044	0.054	2.2	
Tetrachloroethene	0.17	Not Detected	0.040	0.17	
Toluene	10	0.16	0.090	9.8	E
Trichloroethene	0.16	Not Detected	0.024	0.16	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-611NEWYORK-012712

Lab ID#: 1202197-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	350	2.5
Hexane	18	0.17	270	2.5
2-Butanone (Methyl Ethyl Ketone)	59	0.84	270	3.8
Chloroform	2.4	0.021	55	0.48
1,1,1-Trichloroethane	2.7	0.026	4.0	0.038
Cyclohexane	17	0.20	97	1.1
Carbon Tetrachloride	3.1	0.026	15	0.13
Benzene	16	0.13	270	2.2
1,2-Dichloroethane	2.0	0.015	50	0.38
Heptane	20	0.19	140	1.3
Trichloroethene	2.7	0.021	13	0.10
Toluene	4.0	0.040	520	5.2
Tetrachloroethene	4.0	0.036	14	0.13
Ethyl Benzene	2.2	0.022	70	0.69
m,p-Xylene	2.2	0.024	250	2.7
o-Xylene	2.2	0.024	87	0.95

Client Sample ID: IAP-NIC-611NEWYORK-012712 Blank

Lab ID#: 1202197-01B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	26	0.18
Methylene Chloride	35	0.30	78	0.67
Hexane	18	0.17	20	0.18
Benzene	16	0.13	140	1.2
Toluene	4.0	0.040	22	0.22
Ethyl Benzene	2.2	0.022	6.3	0.062
m,p-Xylene	2.2	0.024	15	0.16
o-Xylene	2.2	0.024	4.7	0.052

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1737PARK-012812

Lab ID#: 1202197-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	81	0.57
Methylene Chloride	35	0.25	74	0.54
Hexane	18	0.13	220	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.37	110	0.72
Cyclohexane	17	0.12	77	0.52
Carbon Tetrachloride	3.1	0.023	6.2	0.047
Benzene	16	0.11	190	1.3
1,2-Dichloroethane	2.0	0.015	4.3	0.032
Heptane	20	0.15	79	0.61
Trichloroethene	2.7	0.019	8.6	0.062
Toluene	4.0	0.029	450	3.3
Tetrachloroethene	4.0	0.032	11	0.087
Ethyl Benzene	2.2	0.018	60	0.50
m,p-Xylene	2.2	0.018	220	1.9
o-Xylene	2.2	0.020	97	0.87

Client Sample ID: OAP-NIC-1737PARK-012812 Blank

Lab ID#: 1202197-02B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	53	0.37
Methylene Chloride	35	0.25	520	3.8
Hexane	18	0.13	26	0.19
Benzene	16	0.11	100	0.69
Toluene	4.0	0.029	17	0.12
Ethyl Benzene	2.2	0.018	5.3	0.044
m,p-Xylene	2.2	0.018	9.5	0.080
o-Xylene	2.2	0.020	3.4	0.030

Client Sample ID: IAP-NIC-1318INDI-012812

Lab ID#: 1202197-03A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1318INDI-012812

Lab ID#: 1202197-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	2200 E	18 E
Methylene Chloride	35	0.34	51	0.50
Hexane	18	0.19	520	5.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	720 E	12 E
Chloroform	2.4	0.024	69	0.69
1,1,1-Trichloroethane	2.7	0.029	3.4	0.036
Cyclohexane	17	0.22	200	2.6
Carbon Tetrachloride	3.1	0.030	13	0.13
Benzene	16	0.15	450	4.2
1,2-Dichloroethane	2.0	0.017	27	0.23
Heptane	20	0.21	430	4.6
Trichloroethene	2.7	0.024	35	0.31
Toluene	4.0	0.045	1600 E	18 E
Tetrachloroethene	4.0	0.040	23	0.23
Ethyl Benzene	2.2	0.024	260	2.8
m,p-Xylene	2.2	0.027	920 E	11 E
o-Xylene	2.2	0.027	360	4.4

Client Sample ID: IAP-NIC-1318INDI-012812 Blank

Lab ID#: 1202197-03B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	110	0.89
Methylene Chloride	35	0.34	420	4.1
Hexane	18	0.19	36	0.38
Benzene	16	0.15	190	1.8
Toluene	4.0	0.045	21	0.23
Ethyl Benzene	2.2	0.024	6.0	0.067
m,p-Xylene	2.2	0.027	9.0	0.11
o-Xylene	2.2	0.027	3.7	0.046

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1324INDI-012812

Lab ID#: 1202197-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1100 E	9.1 E
Methylene Chloride	35	0.34	59	0.58
Hexane	18	0.19	1600 E	17 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1300 E	21 E
Chloroform	2.4	0.024	82	0.81
Cyclohexane	17	0.22	1000 E	13 E
Carbon Tetrachloride	3.1	0.030	4.9	0.047
Benzene	16	0.15	1200 E	11 E
1,2-Dichloroethane	2.0	0.017	84	0.72
Heptane	20	0.22	1100 E	12 E
Trichloroethene	2.7	0.024	61	0.53
Toluene	16	0.18	7600 E	87 E
Tetrachloroethene	4.0	0.040	18	0.18
Ethyl Benzene	2.2	0.025	910 E	10 E
m,p-Xylene	2.2	0.027	3400 E	42 E
o-Xylene	2.2	0.027	1200 E	14 E

Client Sample ID: IAP-NIC-1324INDI-012812 Blank

Lab ID#: 1202197-04B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	50	0.40
Methylene Chloride	35	0.34	410	4.0
Hexane	18	0.19	25	0.26
Benzene	16	0.15	140	1.3
Toluene	4.0	0.045	18	0.21
Ethyl Benzene	2.2	0.025	5.1	0.057
m,p-Xylene	2.2	0.027	8.7	0.11
o-Xylene	2.2	0.027	3.6	0.045

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1132CLEV-012812

Lab ID#: 1202197-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	640 E	5.2 E
Methylene Chloride	35	0.34	54	0.53
Hexane	18	0.19	340	3.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	840 E	14 E
Chloroform	2.4	0.024	130	1.3
1,1,1-Trichloroethane	2.7	0.029	3.4	0.037
Cyclohexane	17	0.22	120	1.6
Carbon Tetrachloride	3.1	0.030	16	0.16
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	19	0.16
Heptane	20	0.22	230	2.5
Trichloroethene	2.7	0.024	13	0.11
Toluene	4.0	0.046	840 E	9.5 E
Tetrachloroethene	4.0	0.040	87	0.88
Ethyl Benzene	2.2	0.025	100	1.2
m,p-Xylene	2.2	0.028	330	4.1
o-Xylene	2.2	0.027	140	1.7

Client Sample ID: IAP-NIC-1132CLEV-012812 Blank

Lab ID#: 1202197-05B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	46	0.37
Methylene Chloride	35	0.34	460	4.6
Hexane	18	0.19	25	0.26
Benzene	16	0.15	100	0.96
Toluene	4.0	0.046	20	0.22
Ethyl Benzene	2.2	0.025	4.6	0.052
m,p-Xylene	2.2	0.028	13	0.17
o-Xylene	2.2	0.027	4.0	0.050

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1143CLEV-012812

Lab ID#: 1202197-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1100 E	9.1 E
Methylene Chloride	35	0.34	230	2.2
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1300 E	20 E
Chloroform	2.4	0.024	57	0.57
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	8.7	0.085
Benzene	16	0.15	340	3.2
1,2-Dichloroethane	2.0	0.017	14	0.12
Heptane	20	0.22	160	1.8
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.046	1000 E	12 E
Tetrachloroethene	4.0	0.040	31	0.31
Ethyl Benzene	2.2	0.025	180	2.0
m,p-Xylene	2.2	0.028	670	8.4
o-Xylene	2.2	0.028	260	3.3

Client Sample ID: IAP-NIC-1143CLEV-012812 Blank

Lab ID#: 1202197-06B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	64	0.52
Methylene Chloride	35	0.34	500	4.9
Hexane	18	0.19	36	0.38
Benzene	16	0.15	130	1.2
Toluene	4.0	0.046	24	0.28
Ethyl Benzene	2.2	0.025	9.5	0.11
m,p-Xylene	2.2	0.028	17	0.21
o-Xylene	2.2	0.028	6.5	0.081

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1143CLEVQ-012812

Lab ID#: 1202197-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1100 E	8.6 E
Methylene Chloride	35	0.34	55	0.54
Hexane	18	0.19	300	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1200 E	20 E
Chloroform	2.4	0.024	57	0.57
1,1,1-Trichloroethane	2.7	0.029	3.0	0.032
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	8.0	0.078
Benzene	16	0.15	340	3.2
1,2-Dichloroethane	2.0	0.017	13	0.12
Heptane	20	0.22	170	1.8
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.046	1000 E	12 E
Tetrachloroethene	4.0	0.040	29	0.29
Ethyl Benzene	2.2	0.025	180	2.0
m,p-Xylene	2.2	0.028	670	8.3
o-Xylene	2.2	0.028	250	3.1

Client Sample ID: IAP-NIC-1143CLEVQ-012812 Blank

Lab ID#: 1202197-07B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	52	0.42
Methylene Chloride	35	0.34	250	2.4
Hexane	18	0.19	39	0.41
Benzene	16	0.15	140	1.3
Toluene	4.0	0.046	21	0.23
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.028	10	0.13
o-Xylene	2.2	0.028	4.3	0.054

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1347MATT-012812

Lab ID#: 1202197-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1400 E	11 E
Methylene Chloride	35	0.35	120	1.2
Hexane	18	0.19	390	4.2
2-Butanone (Methyl Ethyl Ketone)	59	0.96	800 E	13 E
Chloroform	2.4	0.024	270	2.7
1,1,1-Trichloroethane	2.7	0.029	3.6	0.039
Cyclohexane	17	0.22	160	2.1
Carbon Tetrachloride	3.1	0.030	21	0.21
Benzene	16	0.15	280	2.7
1,2-Dichloroethane	2.0	0.017	25	0.22
Heptane	20	0.22	240	2.6
Trichloroethene	2.7	0.024	99	0.88
Toluene	4.0	0.046	1300 E	14 E
Tetrachloroethene	4.0	0.041	16	0.16
Ethyl Benzene	2.2	0.025	170	2.0
m,p-Xylene	2.2	0.028	420	5.2
o-Xylene	2.2	0.028	140	1.8

Client Sample ID: IAP-NIC-1347MATT-012812 Blank

Lab ID#: 1202197-08B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	58	0.47
Methylene Chloride	35	0.35	580	5.7
Hexane	18	0.19	53	0.56
Benzene	16	0.15	110	1.0
Toluene	4.0	0.046	19	0.21
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.028	8.0	0.10
o-Xylene	2.2	0.028	3.4	0.043

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1126MATT-012812

Lab ID#: 1202197-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	420	3.4
Methylene Chloride	35	0.34	120	1.2
Hexane	18	0.19	200	2.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	360	5.9
Chloroform	2.4	0.024	360	3.6
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	70	0.92
Carbon Tetrachloride	3.1	0.030	11	0.10
Benzene	16	0.15	330	3.1
1,2-Dichloroethane	2.0	0.017	10	0.086
Heptane	20	0.22	120	1.2
Trichloroethene	2.7	0.024	10	0.088
Toluene	4.0	0.046	490	5.6
Tetrachloroethene	4.0	0.040	13	0.14
Ethyl Benzene	2.2	0.025	78	0.88
m,p-Xylene	2.2	0.028	270	3.4
o-Xylene	2.2	0.027	110	1.3

Client Sample ID: IAP-NIC-1126MATT-012812 Blank

Lab ID#: 1202197-09B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	58	0.47
Methylene Chloride	35	0.34	260	2.5
Hexane	18	0.19	59	0.62
Benzene	16	0.15	160	1.5
Toluene	4.0	0.046	25	0.28
Ethyl Benzene	2.2	0.025	6.8	0.076
m,p-Xylene	2.2	0.028	12	0.15
o-Xylene	2.2	0.027	3.5	0.044

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-17THOHIO-012812

Lab ID#: 1202197-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	87	0.62
Methylene Chloride	35	0.26	290	2.2
Hexane	18	0.14	300	2.3
Chloroform	2.4	0.020	7.2	0.061
1,1,1-Trichloroethane	2.7	0.021	4.1	0.032
Cyclohexane	17	0.12	120	0.85
Carbon Tetrachloride	3.1	0.024	15	0.12
Benzene	16	0.11	230	1.6
1,2-Dichloroethane	2.0	0.015	7.3	0.056
Heptane	20	0.16	120	0.94
Trichloroethene	2.7	0.020	14	0.099
Toluene	4.0	0.030	530	4.0
Tetrachloroethene	4.0	0.034	24	0.20
Ethyl Benzene	2.2	0.019	79	0.68
m,p-Xylene	2.2	0.019	290	2.5
o-Xylene	2.2	0.020	120	1.1

Client Sample ID: OAP-NIC-17THOHIO-012812 Blank

Lab ID#: 1202197-10B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	47	0.34
Methylene Chloride	35	0.26	250	1.9
Hexane	18	0.14	36	0.28
Benzene	16	0.11	100	0.69
Toluene	4.0	0.030	18	0.13
Ethyl Benzene	2.2	0.019	5.4	0.046
m,p-Xylene	2.2	0.019	8.6	0.074
o-Xylene	2.2	0.020	3.8	0.035

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1502E10TH-012612

Lab ID#: 1202197-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.10	130	0.52
Methylene Chloride	35	0.15	56	0.24
Hexane	18	0.079	350	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.22	59	0.22
Chloroform	2.4	0.012	11	0.052
1,1,1-Trichloroethane	2.7	0.012	5.8	0.026
Cyclohexane	17	0.069	130	0.53
Carbon Tetrachloride	3.1	0.014	24	0.11
Benzene	16	0.063	330	1.3
1,2-Dichloroethane	2.0	0.0089	10	0.047
Heptane	20	0.091	140	0.61
Trichloroethene	2.7	0.011	17	0.071
Toluene	4.0	0.017	720	3.2
Tetrachloroethene	4.0	0.019	26	0.12
Ethyl Benzene	2.2	0.011	110	0.52
m,p-Xylene	2.2	0.011	370	1.9
o-Xylene	2.2	0.012	150	0.81

Client Sample ID: OAP-NIC-1502E10TH-012612 Blank

Lab ID#: 1202197-11B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.10	47	0.19
Methylene Chloride	35	0.15	220	0.96
Hexane	18	0.079	34	0.15
Chloroform	2.4	0.012	2.4	0.012
Benzene	16	0.063	110	0.42
Toluene	4.0	0.017	17	0.073
Ethyl Benzene	2.2	0.011	6.0	0.029
m,p-Xylene	2.2	0.011	15	0.073
o-Xylene	2.2	0.012	4.3	0.023

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-12THWELL-013112

Lab ID#: 1202197-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	170	1.2
Methylene Chloride	35	0.25	41	0.29
Hexane	18	0.13	200	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.37	250	1.6
Cyclohexane	17	0.11	73	0.49
Carbon Tetrachloride	3.1	0.023	6.4	0.048
Benzene	16	0.10	240	1.6
1,2-Dichloroethane	2.0	0.015	5.1	0.038
Heptane	20	0.15	84	0.64
Trichloroethene	2.7	0.019	9.6	0.068
Toluene	4.0	0.029	600	4.3
Tetrachloroethene	4.0	0.032	13	0.11
Ethyl Benzene	2.2	0.018	84	0.69
m,p-Xylene	2.2	0.018	300	2.5
o-Xylene	2.2	0.019	130	1.1

Client Sample ID: OAP-NIC-12THWELL-013112 Blank

Lab ID#: 1202197-12B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	78	0.54
Methylene Chloride	35	0.25	590	4.2
Hexane	18	0.13	30	0.22
2-Butanone (Methyl Ethyl Ketone)	59	0.37	130	0.78
Benzene	16	0.10	140	0.92
Toluene	4.0	0.029	28	0.20
Ethyl Benzene	2.2	0.018	8.1	0.066
m,p-Xylene	2.2	0.018	19	0.16
o-Xylene	2.2	0.019	5.1	0.045

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-515MATH-013112

Lab ID#: 1202197-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1200 E	9.9 E
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1300 E	21 E
Chloroform	2.4	0.024	140	1.4
1,1,1-Trichloroethane	2.7	0.029	3.2	0.034
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	12	0.12
Benzene	16	0.15	360	3.4
1,2-Dichloroethane	2.0	0.017	470	4.0
Heptane	20	0.22	190	2.0
Trichloroethene	2.7	0.024	19	0.17
Toluene	4.0	0.045	930 E	10 E
Tetrachloroethene	4.0	0.040	19	0.19
Ethyl Benzene	2.2	0.025	130	1.4
m,p-Xylene	2.2	0.027	440	5.5
o-Xylene	2.2	0.027	170	2.2

Client Sample ID: IAP-NIC-515MATH-013112 Blank

Lab ID#: 1202197-13B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	66	0.53
Methylene Chloride	35	0.34	550	5.4
Hexane	18	0.19	27	0.28
Benzene	16	0.15	140	1.4
Toluene	4.0	0.045	20	0.22
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.027	11	0.13
o-Xylene	2.2	0.027	4.2	0.052

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-515MATHQ-013112

Lab ID#: 1202197-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1300 E	10 E
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	620 E	10 E
Chloroform	2.4	0.024	150	1.4
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	360	3.4
1,2-Dichloroethane	2.0	0.017	300	2.6
Heptane	20	0.22	180	2.0
Trichloroethene	2.7	0.024	18	0.16
Toluene	4.0	0.045	900 E	10 E
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	130	1.4
m,p-Xylene	2.2	0.027	430	5.4
o-Xylene	2.2	0.027	180	2.2

Client Sample ID: IAP-NIC-515MATHQ-013112 Blank

Lab ID#: 1202197-14B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	32	0.26
Methylene Chloride	35	0.34	310	3.0
Hexane	18	0.19	32	0.34
Benzene	16	0.15	120	1.1
Toluene	4.0	0.045	14	0.16
Ethyl Benzene	2.2	0.025	4.5	0.050
m,p-Xylene	2.2	0.027	8.7	0.11
o-Xylene	2.2	0.027	3.5	0.044

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-611NEWYORK-012712

Lab ID#: 1202197-01A

VOC BY PASSIVE SAMPLER

File Name:	**6020915**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 04:38 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0066	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	350	2.5
Methylene Chloride	35	0.30	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.16	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Hexane	18	0.17	270	2.5
2-Butanone (Methyl Ethyl Ketone)	59	0.84	270	3.8
cis-1,2-Dichloroethene	2.0	0.016	Not Detected	Not Detected
Chloroform	2.4	0.021	55	0.48
1,1,1-Trichloroethane	2.7	0.026	4.0	0.038
Cyclohexane	17	0.20	97	1.1
Carbon Tetrachloride	3.1	0.026	15	0.13
Benzene	16	0.13	270	2.2
1,2-Dichloroethane	2.0	0.015	50	0.38
Heptane	20	0.19	140	1.3
Trichloroethene	2.7	0.021	13	0.10
Toluene	4.0	0.040	520	5.2
Tetrachloroethene	4.0	0.036	14	0.13
Ethyl Benzene	2.2	0.022	70	0.69
m,p-Xylene	2.2	0.024	250	2.7
o-Xylene	2.2	0.024	87	0.95
1,1-Dichloroethane	2.0	0.014	Not Detected	Not Detected

Temperature = 69.8F , duration time = 11448 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-611NEWYORK-012712 Blank

Lab ID#: 1202197-01B

VOC BY PASSIVE SAMPLER

File Name:	**6020914**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 04:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0066	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	26	0.18
Methylene Chloride	35	0.30	78	0.67
Methyl tert-butyl ether	18	0.16	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Hexane	18	0.17	20	0.18
2-Butanone (Methyl Ethyl Ketone)	59	0.84	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.016	Not Detected	Not Detected
Chloroform	2.4	0.021	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.026	Not Detected	Not Detected
Cyclohexane	17	0.20	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.026	Not Detected	Not Detected
Benzene	16	0.13	140	1.2
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.19	Not Detected	Not Detected
Trichloroethene	2.7	0.021	Not Detected	Not Detected
Toluene	4.0	0.040	22	0.22
Tetrachloroethene	4.0	0.036	Not Detected	Not Detected
Ethyl Benzene	2.2	0.022	6.3	0.062
m,p-Xylene	2.2	0.024	15	0.16
o-Xylene	2.2	0.024	4.7	0.052
1,1-Dichloroethane	2.0	0.014	Not Detected	Not Detected

Temperature = 69.8F , duration time = 11448 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1737PARK-012812

Lab ID#: 1202197-02A

VOC BY PASSIVE SAMPLER

File Name:	**6020917**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 2:02:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 05:44 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0065	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.17	81	0.57
Methylene Chloride	35	0.25	74	0.54
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.13	220	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.37	110	0.72
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.020	Not Detected	Not Detected
Cyclohexane	17	0.12	77	0.52
Carbon Tetrachloride	3.1	0.023	6.2	0.047
Benzene	16	0.11	190	1.3
1,2-Dichloroethane	2.0	0.015	4.3	0.032
Heptane	20	0.15	79	0.61
Trichloroethene	2.7	0.019	8.6	0.062
Toluene	4.0	0.029	450	3.3
Tetrachloroethene	4.0	0.032	11	0.087
Ethyl Benzene	2.2	0.018	60	0.50
m,p-Xylene	2.2	0.018	220	1.9
o-Xylene	2.2	0.020	97	0.87
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10301 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1737PARK-012812 Blank

Lab ID#: 1202197-02B

VOC BY PASSIVE SAMPLER

File Name:	**6020916**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 2:02:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 05:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0065	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.17	53	0.37
Methylene Chloride	35	0.25	520	3.8
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.13	26	0.19
2-Butanone (Methyl Ethyl Ketone)	59	0.37	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.020	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.023	Not Detected	Not Detected
Benzene	16	0.11	100	0.69
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.15	Not Detected	Not Detected
Trichloroethene	2.7	0.019	Not Detected	Not Detected
Toluene	4.0	0.029	17	0.12
Tetrachloroethene	4.0	0.032	Not Detected	Not Detected
Ethyl Benzene	2.2	0.018	5.3	0.044
m,p-Xylene	2.2	0.018	9.5	0.080
o-Xylene	2.2	0.020	3.4	0.030
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10301 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1318INDI-012812

Lab ID#: 1202197-03A

VOC BY PASSIVE SAMPLER

File Name:	**6020919**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:35:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 06:52 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	2200 E	18 E
Methylene Chloride	35	0.34	51	0.50
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	520	5.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	720 E	12 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	69	0.69
1,1,1-Trichloroethane	2.7	0.029	3.4	0.036
Cyclohexane	17	0.22	200	2.6
Carbon Tetrachloride	3.1	0.030	13	0.13
Benzene	16	0.15	450	4.2
1,2-Dichloroethane	2.0	0.017	27	0.23
Heptane	20	0.21	430	4.6
Trichloroethene	2.7	0.024	35	0.31
Toluene	4.0	0.045	1600 E	18 E
Tetrachloroethene	4.0	0.040	23	0.23
Ethyl Benzene	2.2	0.024	260	2.8
m,p-Xylene	2.2	0.027	920 E	11 E
o-Xylene	2.2	0.027	360	4.4
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10130 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1318INDI-012812 Blank

Lab ID#: 1202197-03B

VOC BY PASSIVE SAMPLER

File Name:	**6020918**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:35:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 06:18 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	110	0.89
Methylene Chloride	35	0.34	420	4.1
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	36	0.38
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	190	1.8
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.21	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	21	0.23
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.024	6.0	0.067
m,p-Xylene	2.2	0.027	9.0	0.11
o-Xylene	2.2	0.027	3.7	0.046
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10130 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1324INDI-012812

Lab ID#: 1202197-04A

VOC BY PASSIVE SAMPLER

File Name:	**6020921**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 07:58 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1100 E	9.1 E
Methylene Chloride	35	0.34	59	0.58
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	1600 E	17 E
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1300 E	21 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	82	0.81
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	1000 E	13 E
Carbon Tetrachloride	3.1	0.030	4.9	0.047
Benzene	16	0.15	1200 E	11 E
1,2-Dichloroethane	2.0	0.017	84	0.72
Heptane	20	0.22	1100 E	12 E
Trichloroethene	2.7	0.024	61	0.53
Toluene	16	0.18	7600 E	87 E
Tetrachloroethene	4.0	0.040	18	0.18
Ethyl Benzene	2.2	0.025	910 E	10 E
m,p-Xylene	2.2	0.027	3400 E	42 E
o-Xylene	2.2	0.027	1200 E	14 E
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Toluene was reported from file #6021011, analyzed on 2/10/12 with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 10113 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1324INDI-012812 Blank

Lab ID#: 1202197-04B

VOC BY PASSIVE SAMPLER

File Name:	**6020920**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 07:24 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0075	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	50	0.40
Methylene Chloride	35	0.34	410	4.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	25	0.26
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	18	0.21
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.1	0.057
m,p-Xylene	2.2	0.027	8.7	0.11
o-Xylene	2.2	0.027	3.6	0.045
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10113 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1132CLEV-012812

Lab ID#: 1202197-05A

VOC BY PASSIVE SAMPLER

File Name:	**6020923**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:23:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 09:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	640 E	5.2 E
Methylene Chloride	35	0.34	54	0.53
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	340	3.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	840 E	14 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	130	1.3
1,1,1-Trichloroethane	2.7	0.029	3.4	0.037
Cyclohexane	17	0.22	120	1.6
Carbon Tetrachloride	3.1	0.030	16	0.16
Benzene	16	0.15	350	3.3
1,2-Dichloroethane	2.0	0.017	19	0.16
Heptane	20	0.22	230	2.5
Trichloroethene	2.7	0.024	13	0.11
Toluene	4.0	0.046	840 E	9.5 E
Tetrachloroethene	4.0	0.040	87	0.88
Ethyl Benzene	2.2	0.025	100	1.2
m,p-Xylene	2.2	0.028	330	4.1
o-Xylene	2.2	0.027	140	1.7
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10068 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1132CLEV-012812 Blank

Lab ID#: 1202197-05B

VOC BY PASSIVE SAMPLER

File Name:	**6020922**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:23:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 08:32 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	46	0.37
Methylene Chloride	35	0.34	460	4.6
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	25	0.26
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	100	0.96
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	20	0.22
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	4.6	0.052
m,p-Xylene	2.2	0.028	13	0.17
o-Xylene	2.2	0.027	4.0	0.050
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10068 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1143CLEV-012812

Lab ID#: 1202197-06A

VOC BY PASSIVE SAMPLER

File Name:	**6020925**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:27:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 10:10 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1100 E	9.1 E
Methylene Chloride	35	0.34	230	2.2
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1300 E	20 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	57	0.57
1,1,1-Trichloroethane	2.7	0.029	2.9	0.031
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	8.7	0.085
Benzene	16	0.15	340	3.2
1,2-Dichloroethane	2.0	0.017	14	0.12
Heptane	20	0.22	160	1.8
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.046	1000 E	12 E
Tetrachloroethene	4.0	0.040	31	0.31
Ethyl Benzene	2.2	0.025	180	2.0
m,p-Xylene	2.2	0.028	670	8.4
o-Xylene	2.2	0.028	260	3.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10061 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1143CLEV-012812 Blank

Lab ID#: 1202197-06B

VOC BY PASSIVE SAMPLER

File Name:	**6020924**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:27:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 09:38 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	64	0.52
Methylene Chloride	35	0.34	500	4.9
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	36	0.38
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	130	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	24	0.28
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	9.5	0.11
m,p-Xylene	2.2	0.028	17	0.21
o-Xylene	2.2	0.028	6.5	0.081
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10061 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1143CLEVQ-012812

Lab ID#: 1202197-07A

VOC BY PASSIVE SAMPLER

File Name:	**6020927**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:27:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 11:16 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1100 E	8.6 E
Methylene Chloride	35	0.34	55	0.54
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	300	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1200 E	20 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	57	0.57
1,1,1-Trichloroethane	2.7	0.029	3.0	0.032
Cyclohexane	17	0.22	120	1.5
Carbon Tetrachloride	3.1	0.030	8.0	0.078
Benzene	16	0.15	340	3.2
1,2-Dichloroethane	2.0	0.017	13	0.12
Heptane	20	0.22	170	1.8
Trichloroethene	2.7	0.024	17	0.15
Toluene	4.0	0.046	1000 E	12 E
Tetrachloroethene	4.0	0.040	29	0.29
Ethyl Benzene	2.2	0.025	180	2.0
m,p-Xylene	2.2	0.028	670	8.3
o-Xylene	2.2	0.028	250	3.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10061 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1143CLEVQ-012812 Blank

Lab ID#: 1202197-07B

VOC BY PASSIVE SAMPLER

File Name:	**6020926**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:27:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 10:43 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	52	0.42
Methylene Chloride	35	0.34	250	2.4
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	39	0.41
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	21	0.23
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.028	10	0.13
o-Xylene	2.2	0.028	4.3	0.054
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10061 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1347MATT-012812

Lab ID#: 1202197-08A

VOC BY PASSIVE SAMPLER

File Name:	**6020929**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:41:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:23 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1400 E	11 E
Methylene Chloride	35	0.35	120	1.2
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	390	4.2
2-Butanone (Methyl Ethyl Ketone)	59	0.96	800 E	13 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	270	2.7
1,1,1-Trichloroethane	2.7	0.029	3.6	0.039
Cyclohexane	17	0.22	160	2.1
Carbon Tetrachloride	3.1	0.030	21	0.21
Benzene	16	0.15	280	2.7
1,2-Dichloroethane	2.0	0.017	25	0.22
Heptane	20	0.22	240	2.6
Trichloroethene	2.7	0.024	99	0.88
Toluene	4.0	0.046	1300 E	14 E
Tetrachloroethene	4.0	0.041	16	0.16
Ethyl Benzene	2.2	0.025	170	2.0
m,p-Xylene	2.2	0.028	420	5.2
o-Xylene	2.2	0.028	140	1.8
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10031 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1347MATT-012812 Blank

Lab ID#: 1202197-08B

VOC BY PASSIVE SAMPLER

File Name:	**6020928**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:41:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 11:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	58	0.47
Methylene Chloride	35	0.35	580	5.7
Methyl tert-butyl ether	18	0.19	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	53	0.56
2-Butanone (Methyl Ethyl Ketone)	59	0.96	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	110	1.0
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	19	0.21
Tetrachloroethene	4.0	0.041	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.028	8.0	0.10
o-Xylene	2.2	0.028	3.4	0.043
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10031 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1126MATT-012812

Lab ID#: 1202197-09A

VOC BY PASSIVE SAMPLER

File Name:	**6020931**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 2:46:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 01:29 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	420	3.4
Methylene Chloride	35	0.34	120	1.2
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	200	2.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	360	5.9
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	360	3.6
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	70	0.92
Carbon Tetrachloride	3.1	0.030	11	0.10
Benzene	16	0.15	330	3.1
1,2-Dichloroethane	2.0	0.017	10	0.086
Heptane	20	0.22	120	1.2
Trichloroethene	2.7	0.024	10	0.088
Toluene	4.0	0.046	490	5.6
Tetrachloroethene	4.0	0.040	13	0.14
Ethyl Benzene	2.2	0.025	78	0.88
m,p-Xylene	2.2	0.028	270	3.4
o-Xylene	2.2	0.027	110	1.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10071 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1126MATT-012812 Blank

Lab ID#: 1202197-09B

VOC BY PASSIVE SAMPLER

File Name:	**6020930**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 2:46:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:56 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	58	0.47
Methylene Chloride	35	0.34	260	2.5
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	59	0.62
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.5
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	25	0.28
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.8	0.076
m,p-Xylene	2.2	0.028	12	0.15
o-Xylene	2.2	0.027	3.5	0.044
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10071 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-17THOHIO-012812

Lab ID#: 1202197-10A

VOC BY PASSIVE SAMPLER

File Name:	**6020933**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:56:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 02:34 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	87	0.62
Methylene Chloride	35	0.26	290	2.2
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	300	2.3
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	7.2	0.061
1,1,1-Trichloroethane	2.7	0.021	4.1	0.032
Cyclohexane	17	0.12	120	0.85
Carbon Tetrachloride	3.1	0.024	15	0.12
Benzene	16	0.11	230	1.6
1,2-Dichloroethane	2.0	0.015	7.3	0.056
Heptane	20	0.16	120	0.94
Trichloroethene	2.7	0.020	14	0.099
Toluene	4.0	0.030	530	4.0
Tetrachloroethene	4.0	0.034	24	0.20
Ethyl Benzene	2.2	0.019	79	0.68
m,p-Xylene	2.2	0.019	290	2.5
o-Xylene	2.2	0.020	120	1.1
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10006 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-17THOHIO-012812 Blank

Lab ID#: 1202197-10B

VOC BY PASSIVE SAMPLER

File Name:	**6020932**	**Date of Extraction: NA**	**Date of Collection: 2/4/12 1:56:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 02:01 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	47	0.34
Methylene Chloride	35	0.26	250	1.9
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	36	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	100	0.69
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	18	0.13
Tetrachloroethene	4.0	0.034	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	5.4	0.046
m,p-Xylene	2.2	0.019	8.6	0.074
o-Xylene	2.2	0.020	3.8	0.035
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10006 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1502E10TH-012612

Lab ID#: 1202197-11A

VOC BY PASSIVE SAMPLER

File Name:	**6020935**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:07:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 03:40 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0039	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.010	Not Detected	Not Detected
Acetone	24	0.10	130	0.52
Methylene Chloride	35	0.15	56	0.24
Methyl tert-butyl ether	18	0.083	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.0085	Not Detected	Not Detected
Hexane	18	0.079	350	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.22	59	0.22
cis-1,2-Dichloroethene	2.0	0.0085	Not Detected	Not Detected
Chloroform	2.4	0.012	11	0.052
1,1,1-Trichloroethane	2.7	0.012	5.8	0.026
Cyclohexane	17	0.069	130	0.53
Carbon Tetrachloride	3.1	0.014	24	0.11
Benzene	16	0.063	330	1.3
1,2-Dichloroethane	2.0	0.0089	10	0.047
Heptane	20	0.091	140	0.61
Trichloroethene	2.7	0.011	17	0.071
Toluene	4.0	0.017	720	3.2
Tetrachloroethene	4.0	0.019	26	0.12
Ethyl Benzene	2.2	0.011	110	0.52
m,p-Xylene	2.2	0.011	370	1.9
o-Xylene	2.2	0.012	150	0.81
1,1-Dichloroethane	2.0	0.010	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 17498 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-1502E10TH-012612 Blank

Lab ID#: 1202197-11B

VOC BY PASSIVE SAMPLER

File Name:	**6020934**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:07:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 03:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0039	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.010	Not Detected	Not Detected
Acetone	24	0.10	47	0.19
Methylene Chloride	35	0.15	220	0.96
Methyl tert-butyl ether	18	0.083	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.0085	Not Detected	Not Detected
Hexane	18	0.079	34	0.15
2-Butanone (Methyl Ethyl Ketone)	59	0.22	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.0085	Not Detected	Not Detected
Chloroform	2.4	0.012	2.4	0.012
1,1,1-Trichloroethane	2.7	0.012	Not Detected	Not Detected
Cyclohexane	17	0.069	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.014	Not Detected	Not Detected
Benzene	16	0.063	110	0.42
1,2-Dichloroethane	2.0	0.0089	Not Detected	Not Detected
Heptane	20	0.091	Not Detected	Not Detected
Trichloroethene	2.7	0.011	Not Detected	Not Detected
Toluene	4.0	0.017	17	0.073
Tetrachloroethene	4.0	0.019	Not Detected	Not Detected
Ethyl Benzene	2.2	0.011	6.0	0.029
m,p-Xylene	2.2	0.011	15	0.073
o-Xylene	2.2	0.012	4.3	0.023
1,1-Dichloroethane	2.0	0.010	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 17498 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-12THWELL-013112

Lab ID#: 1202197-12A

VOC BY PASSIVE SAMPLER

File Name:	**6020937**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 04:45 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0064	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.17	170	1.2
Methylene Chloride	35	0.25	41	0.29
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.13	200	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.37	250	1.6
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.019	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.020	Not Detected	Not Detected
Cyclohexane	17	0.11	73	0.49
Carbon Tetrachloride	3.1	0.023	6.4	0.048
Benzene	16	0.10	240	1.6
1,2-Dichloroethane	2.0	0.015	5.1	0.038
Heptane	20	0.15	84	0.64
Trichloroethene	2.7	0.019	9.6	0.068
Toluene	4.0	0.029	600	4.3
Tetrachloroethene	4.0	0.032	13	0.11
Ethyl Benzene	2.2	0.018	84	0.69
m,p-Xylene	2.2	0.018	300	2.5
o-Xylene	2.2	0.019	130	1.1
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10437 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-12THWELL-013112 Blank

Lab ID#: 1202197-12B

VOC BY PASSIVE SAMPLER

File Name:	**6020936**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 04:13 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0064	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.17	78	0.54
Methylene Chloride	35	0.25	590	4.2
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.13	30	0.22
2-Butanone (Methyl Ethyl Ketone)	59	0.37	130	0.78
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.019	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.020	Not Detected	Not Detected
Cyclohexane	17	0.11	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.023	Not Detected	Not Detected
Benzene	16	0.10	140	0.92
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.15	Not Detected	Not Detected
Trichloroethene	2.7	0.019	Not Detected	Not Detected
Toluene	4.0	0.029	28	0.20
Tetrachloroethene	4.0	0.032	Not Detected	Not Detected
Ethyl Benzene	2.2	0.018	8.1	0.066
m,p-Xylene	2.2	0.018	19	0.16
o-Xylene	2.2	0.019	5.1	0.045
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 44.6F , duration time = 10437 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-515MATH-013112

Lab ID#: 1202197-13A

VOC BY PASSIVE SAMPLER

File Name:	**6020939**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:03:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 05:51 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1200 E	9.9 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	1300 E	21 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	140	1.4
1,1,1-Trichloroethane	2.7	0.029	3.2	0.034
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	12	0.12
Benzene	16	0.15	360	3.4
1,2-Dichloroethane	2.0	0.017	470	4.0
Heptane	20	0.22	190	2.0
Trichloroethene	2.7	0.024	19	0.17
Toluene	4.0	0.045	930 E	10 E
Tetrachloroethene	4.0	0.040	19	0.19
Ethyl Benzene	2.2	0.025	130	1.4
m,p-Xylene	2.2	0.027	440	5.5
o-Xylene	2.2	0.027	170	2.2
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10092 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-515MATH-013112 Blank

Lab ID#: 1202197-13B

VOC BY PASSIVE SAMPLER

File Name:	**6020938**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:03:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 05:18 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	66	0.53
Methylene Chloride	35	0.34	550	5.4
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	27	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.4
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	20	0.22
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.9	0.066
m,p-Xylene	2.2	0.027	11	0.13
o-Xylene	2.2	0.027	4.2	0.052
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10092 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-515MATHQ-013112

Lab ID#: 1202197-14A

VOC BY PASSIVE SAMPLER

File Name:	**6020941**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:03:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 06:57 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1300 E	10 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	290	3.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	620 E	10 E
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	150	1.4
1,1,1-Trichloroethane	2.7	0.029	2.8	0.030
Cyclohexane	17	0.22	110	1.4
Carbon Tetrachloride	3.1	0.030	12	0.11
Benzene	16	0.15	360	3.4
1,2-Dichloroethane	2.0	0.017	300	2.6
Heptane	20	0.22	180	2.0
Trichloroethene	2.7	0.024	18	0.16
Toluene	4.0	0.045	900 E	10 E
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	130	1.4
m,p-Xylene	2.2	0.027	430	5.4
o-Xylene	2.2	0.027	180	2.2
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10092 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-515MATHQ-013112 Blank

Lab ID#: 1202197-14B

VOC BY PASSIVE SAMPLER

File Name:	**6020940**	**Date of Extraction: NA**	**Date of Collection: 2/7/12 3:03:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 06:24 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	32	0.26
Methylene Chloride	35	0.34	310	3.0
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	32	0.34
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.1
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	14	0.16
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	4.5	0.050
m,p-Xylene	2.2	0.027	8.7	0.11
o-Xylene	2.2	0.027	3.5	0.044
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10092 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202197-15A

VOC BY PASSIVE SAMPLER

File Name:	**6020909**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 01:20 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0044	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.012	Not Detected	Not Detected
Acetone	24	0.11	Not Detected	Not Detected
Methylene Chloride	35	0.20	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.11	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.55	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.010	Not Detected	Not Detected
Chloroform	2.4	0.014	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.017	Not Detected	Not Detected
Cyclohexane	17	0.13	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.017	Not Detected	Not Detected
Benzene	16	0.087	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.0099	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.014	Not Detected	Not Detected
Toluene	4.0	0.026	Not Detected	Not Detected
Tetrachloroethene	4.0	0.023	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	Not Detected	Not Detected
m,p-Xylene	2.2	0.016	Not Detected	Not Detected
o-Xylene	2.2	0.016	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.0089	Not Detected	Not Detected

Temperature = 69.8F , duration time = 17498 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202197-15B

VOC BY PASSIVE SAMPLER

File Name:	**6021006**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:56 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0044	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.012	Not Detected	Not Detected
Acetone	24	0.11	Not Detected	Not Detected
Methylene Chloride	35	0.20	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.11	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.55	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.010	Not Detected	Not Detected
Chloroform	2.4	0.014	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.017	Not Detected	Not Detected
Cyclohexane	17	0.13	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.017	Not Detected	Not Detected
Benzene	16	0.087	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.0099	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.014	Not Detected	Not Detected
Toluene	4.0	0.026	Not Detected	Not Detected
Tetrachloroethene	4.0	0.023	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	Not Detected	Not Detected
m,p-Xylene	2.2	0.016	Not Detected	Not Detected
o-Xylene	2.2	0.016	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.0089	Not Detected	Not Detected

Temperature = 69.8F , duration time = 17498 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202197-16A

VOC BY PASSIVE SAMPLER

File Name:	**6020905**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 11:01 AM**

Compound	**%Recovery**
Vinyl Chloride	115
1,1-Dichloroethene	85
Acetone	83
Methylene Chloride	83
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	93
Hexane	99
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	97
Chloroform	92
1,1,1-Trichloroethane	94
Cyclohexane	103
Carbon Tetrachloride	110
Benzene	88
1,2-Dichloroethane	87
Heptane	87
Trichloroethene	94
Toluene	92
Tetrachloroethene	99
Ethyl Benzene	98
m,p-Xylene	91
o-Xylene	97
1,1-Dichloroethane	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV High Split
Lab ID#: 1202197-16B
VOC BY PASSIVE SAMPLER

File Name:	**6021002**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**4.00**		**Date of Analysis: 2/10/12 10:59 AM**

Compound	**%Recovery**
Vinyl Chloride	102
1,1-Dichloroethene	79
Acetone	74
Methylene Chloride	80
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	86
Hexane	97
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	91
Chloroform	98
1,1,1-Trichloroethane	100
Cyclohexane	105
Carbon Tetrachloride	114
Benzene	90
1,2-Dichloroethane	97
Heptane	88
Trichloroethene	98
Toluene	93
Tetrachloroethene	102
Ethyl Benzene	100
m,p-Xylene	94
o-Xylene	100
1,1-Dichloroethane	86

Temperature = 32.0F , duration time = 0 minutes.
Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1202197-17A
VOC BY PASSIVE SAMPLER

File Name:	**6020906**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 11:33 AM**

Compound	**%Recovery**
Vinyl Chloride	115
1,1-Dichloroethene	90
Acetone	85
Methylene Chloride	83
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	106
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	97
Chloroform	92
1,1,1-Trichloroethane	97
Cyclohexane	103
Carbon Tetrachloride	109
Benzene	90
1,2-Dichloroethane	88
Heptane	88
Trichloroethene	97
Toluene	94
Tetrachloroethene	101
Ethyl Benzene	100
m,p-Xylene	97
o-Xylene	105
1,1-Dichloroethane	94

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1202197-17AA
VOC BY PASSIVE SAMPLER

File Name:	**6020907**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/9/12 12:01 PM**

Compound	**%Recovery**
Vinyl Chloride	116
1,1-Dichloroethene	91
Acetone	107
Methylene Chloride	85
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	106
Hexane	98
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	100
Chloroform	88
1,1,1-Trichloroethane	94
Cyclohexane	103
Carbon Tetrachloride	97
Benzene	94
1,2-Dichloroethane	87
Heptane	88
Trichloroethene	100
Toluene	96
Tetrachloroethene	101
Ethyl Benzene	100
m,p-Xylene	99
o-Xylene	105
1,1-Dichloroethane	93

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1202197-17B

VOC BY PASSIVE SAMPLER

File Name:	**6021004**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:00 PM**

Compound	**%Recovery**
Vinyl Chloride	128
1,1-Dichloroethene	99
Acetone	81
Methylene Chloride	91
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	112
Hexane	103
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	103
Chloroform	97
1,1,1-Trichloroethane	102
Cyclohexane	110
Carbon Tetrachloride	108
Benzene	92
1,2-Dichloroethane	90
Heptane	94
Trichloroethene	99
Toluene	93
Tetrachloroethene	100
Ethyl Benzene	96
m,p-Xylene	94
o-Xylene	99
1,1-Dichloroethane	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1202197-17BB

VOC BY PASSIVE SAMPLER

File Name:	**6021005**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/10/12 12:28 PM**

Compound	**%Recovery**
Vinyl Chloride	133 Q
1,1-Dichloroethene	102
Acetone	93
Methylene Chloride	95
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	112
Hexane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	108
Chloroform	93
1,1,1-Trichloroethane	99
Cyclohexane	108
Carbon Tetrachloride	94
Benzene	93
1,2-Dichloroethane	89
Heptane	91
Trichloroethene	100
Toluene	94
Tetrachloroethene	98
Ethyl Benzene	96
m,p-Xylene	93
o-Xylene	98
1,1-Dichloroethane	102

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	95	70-130

PASSIVE SAMPLE COLLECTION

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.

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

Project Manager: Kevin Good (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith Email: martinkij@cdmsmith.com williamsmk@cdmsmith.com
Address: 345 Riverview, Ste 520 City: Wichita State: KS Zip: 67203
Phone: 316-267-6400 Fax: 316-264-3025

Project Info:
P.O. #:
Project #: 23395-88707
Project Name: NL Site wide VI

Turn Around Time: ☒ Normal ☐ Rush (specify)

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	IAP-NIC-611NEWYORK-012712		01/27/12	14:30	02/04/12	13:18	TO-17	☒	☐	☐	☐
02A	OAP-NIC-1737PARK-012812		01/28/12	10:21	02/04/12	14:02	TO-17	☐	☒	☐	☐
03A	IAP-NIC-1318INDI-~~012812~~ MW 012812		01/28/12	12:45	02/04/12	13:35	TO-17	☒	☐	☐	☐
04A	IAP-NIC-1324INDI-012812		01/28/12	13:00	02/04/12	13:33	TO-17	☒	☐	☐	☐
05A	IAP-NIC-1132CLEV-012812		01/28/12	13:35	02/04/12	13:23	TO-17	☒	☐	☐	☐
06A	IAP-NIC-1143CLEV-012812		01/28/12	13:46	02/04/12	13:27	TO-17	☒	☐	☐	☐
07A	IAP-NIC-1143CLEVQ-012812		01/28/12	13:46	02/04/12	13:27	TO-17	☒	☐	☐	☐
08A	IAP-NIC-1347MATT-012812		01/28/12	14:30	02/04/12	13:41	TO-17	☒	☐	☐	☐
09A	IAP-NIC-1126MATT-012812		01/28/12	14:55	02/04/12	14:46	TO-17	☒	☐	☐	☐
10A	OAP-NIC-17THOHIO-012812		01/28/12	15:10	02/04/12	13:56	TO-17 MW	☒	☒	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/4/12 15:30	[signature] ATL	2/8/12 0845
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FED Ex		NA	Good	Yes No None	1202197

PASSIVE SAMPLE COLLECTION

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.

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

Project Manager: Kevin Reed (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith Email: martichbj@cdmsmith.com williamsmk@cdmsmith.com
Address: 345 Riverview, Ste 520 City: Wichita State: Ks Zip: 67203
Phone: 316-660-6700 Fax: 316-264-3025

Project Info:
P.O. #:
Project #: 2345-88707
Project Name: NK Site-wide VI

Turn Around Time: ☒ Normal ☐ Rush (specify)

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
11A	OAP-NIC-1502E10TH-012612		01/26/12	11:29	02/07/12	15:07	TO17	☐	☒	☐	☐
12A	OAP-NIC-12THLOEU-013112		01/31/12	09:21	02/07/12	15:18	TO-17	☐	☒	☐	☐
13A	IAP-NIC-515MATH-013112		01/31/12	14:51	02/07/12	15:03	TO-17	☒	☐	☐	☐
14A	IAP-NIC-515MATHQ-013112		01/31/12	14:51	02/07/12	15:03	TO-17	☒	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/7/12 15:30	MR ATL	2/8/12 0845
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FED Ex		N/A	GOOD	Yes No None	1202197

Air Toxics LTD.
Laboratory Services Since 1989

2/24/2012
Ms. Monica Williams
CDM
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-wide VI
Project #: 2395-88707
Workorder #: 1202261

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 2/10/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Passive Ultra III (TD) 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202261

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/10/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/24/2012		

FRACTION #	NAME	TEST
01A	IAP-NIC-1134INDI-012812	Passive Ultra III (TD)
01B	IAP-NIC-1134INDI-012812 Blank	Passive Ultra III (TD)
02A	OAP-NIC-19THWASH-020112	Passive Ultra III (TD)
02B	OAP-NIC-19THWASH-020112 Blank	Passive Ultra III (TD)
03A	IAP-NIC-MCAREC-OF-020212	Passive Ultra III (TD)
03B	IAP-NIC-MCAREC-OF-020212 Blank	Passive Ultra III (TD)
04A	IAP-NIC-MCAREC-LNG-020212	Passive Ultra III (TD)
04B	IAP-NIC-MCAREC-LNG-020212 Blank	Passive Ultra III (TD)
05A	IAP-NIC-MCAREC-CR-020212	Passive Ultra III (TD)
05B	IAP-NIC-MCAREC-CR-020212 Blank	Passive Ultra III (TD)
06A	OAP-NIC-MCAREC-020212	Passive Ultra III (TD)
06B	OAP-NIC-MCAREC-020212 Blank	Passive Ultra III (TD)
07A	IAP-NIC-VCHRISTI-BSMT-020212	Passive Ultra III (TD)
07B	IAP-NIC-VCHRISTI-BSMT-020212 Blank	Passive Ultra III (TD)
08A	IAP-NIC-VCHRISTI-104-020212	Passive Ultra III (TD)
08B	IAP-NIC-VCHRISTI-104-020212 Blank	Passive Ultra III (TD)
09A	IAP-NIC-VCHRISTI-108-020212	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202261

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/10/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/24/2012		

FRACTION #	NAME	TEST
09B	IAP-NIC-VCHRISTI-108-020212 Blank	Passive Ultra III (TD)
10A	IAP-NIC-VCHRISTI-113-020212	Passive Ultra III (TD)
10B	IAP-NIC-VCHRISTI-113-020212 Blank	Passive Ultra III (TD)
11A	OAP-NIC-VCHRISTI-020212	Passive Ultra III (TD)
11B	OAP-NIC-VCHRISTI-020212 Blank	Passive Ultra III (TD)
12A	OAP-NIC-VCHRISTIQ-020212	Passive Ultra III (TD)
12B	OAP-NIC-VCHRISTIQ-020212 Blank	Passive Ultra III (TD)
13A	IAP-NIC-ENVIS104-020212	Passive Ultra III (TD)
13B	IAP-NIC-ENVIS104-020212 Blank	Passive Ultra III (TD)
14A	IAP-NIC-ENVISGYM-020212	Passive Ultra III (TD)
14B	IAP-NIC-ENVISGYM-020212 Blank	Passive Ultra III (TD)
15A	IAP-NIC-ENVISNUR-020212	Passive Ultra III (TD)
15B	IAP-NIC-ENVISNUR-020212 Blank	Passive Ultra III (TD)
16A	IAP-NIC-ENVISNURQ-020212	Passive Ultra III (TD)
16B	IAP-NIC-ENVISNURQ-020212 Blank	Passive Ultra III (TD)
17A	IAP-NIC-UMC109C-020212	Passive Ultra III (TD)
17B	IAP-NIC-UMC109C-020212 Blank	Passive Ultra III (TD)
18A	IAP-NIC-UMCNUR-020212	Passive Ultra III (TD)
18B	IAP-NIC-UMCNUR-020212 Blank	Passive Ultra III (TD)
19A	OAP-NIC-UMC-020212	Passive Ultra III (TD)

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1202261

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	02/10/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/24/2012		

FRACTION #	NAME	TEST
19B	OAP-NIC-UMC-020212 Blank	Passive Ultra III (TD)
20A	Lab Blank	Passive Ultra III (TD)
20B	Lab Blank	Passive Ultra III (TD)
21A	CCV	Passive Ultra III (TD)
21B	CCV High Split	Passive Ultra III (TD)
21C	CCV	Passive Ultra III (TD)
22A	LCS	Passive Ultra III (TD)
22AA	LCSD	Passive Ultra III (TD)
22B	LCS	Passive Ultra III (TD)
22BB	LCSD	Passive Ultra III (TD)

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 02/24/12

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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
Passive TO-17 GC/MS
CDM
Workorder# 1202261

Nineteen Ultra III (TD) samples were received on February 10, 2012. The laboratory transferred the sample sorbent bed and the associated blank sorbent bed each to separate thermal desorption tubes. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The actual exposure time and temperature were used to calculate sample concentrations and reporting limits. An exposure time of 16,031 minutes and a temperature of 70F was used to calculate concentrations and reporting limits for the associated Lab Blanks.

Sample IAP-NIC-1134INDI-012812 had mass concentrations for Acetone well above the standard calibration range at saturated levels. To provide reliable results, the sample was analyzed at a higher split than the initial calibration. The split used resulted in a dilution of 4 to 1, and the reporting limit and calibration range were raised accordingly.

Heptane in samples IAP-NIC-1134INDI-012812 was reported from the diluted analysis with a 4 to 1 split since there was severe interference in the original analysis.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

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 Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-1134INDI-012812

Lab ID#: 1202261-01A/01B

Collection Date: 02/08/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.032	Not Detected	0.018	0.032	
1,2-Dichloroethane	3.7	Not Detected	0.011	3.7	
2-Butanone (Methyl Ethyl Ketone)	10	Not Detected	0.60	10	E
Acetone	84	1.6	1.9	82	E
Benzene	2.2	0.99	0.19	1.2	
Carbon Tetrachloride	0.13	Not Detected	0.019	0.13	
Chloroform	0.46	Not Detected	0.015	0.46	
Cyclohexane	0.96	Not Detected	0.14	0.96	
Ethyl Benzene	0.92	0.040	0.032	0.88	
Heptane	1.8	Not Detected	0.54	1.8	
Hexane	2.4	0.28	0.24	2.1	
m,p-Xylene	3.1	0.071	0.034	3.0	
Methylene Chloride	0.30	3.3	0.44	Not Detected	
o-Xylene	1.2	0.028	0.034	1.2	
Tetrachloroethene	0.13	Not Detected	0.025	0.13	
Toluene	8.0	0.12	0.058	7.9	E
Trichloroethene	0.096	Not Detected	0.015	0.096	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-19THWASH-020112

Lab ID#: 1202261-02A/02B

Collection Date: 02/08/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.023	Not Detected	0.020	0.023	
1,2-Dichloroethane	0.049	Not Detected	0.015	0.049	
2-Butanone (Methyl Ethyl Ketone)	0.58	Not Detected	0.37	0.58	
Acetone	0.84	0.46	0.32	0.38	
Benzene	1.5	0.93	0.20	0.57	
Carbon Tetrachloride	0.076	Not Detected	0.023	0.076	
Chloroform	0.027	Not Detected	0.019	0.027	
Cyclohexane	0.75	Not Detected	0.11	0.75	
Ethyl Benzene	0.86	0.054	0.036	0.81	
Heptane	1.0	Not Detected	0.15	1.0	
Hexane	2.3	0.28	0.26	2.0	
m,p-Xylene	3.0	0.12	0.036	2.9	
Methylene Chloride	0.70	1.7	0.50	Not Detected	
o-Xylene	1.2	0.035	0.038	1.2	
Tetrachloroethene	0.15	Not Detected	0.032	0.15	
Toluene	4.8	0.14	0.058	4.7	
Trichloroethene	0.14	Not Detected	0.019	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-MCAREC-OF-020212

Lab ID#: 1202261-03A/03B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.063	Not Detected	0.017	0.063	
2-Butanone (Methyl Ethyl Ketone)	2.6	Not Detected	0.95	2.6	
Acetone	5.5	0.26	0.38	5.2	E
Benzene	2.1	1.0	0.30	1.1	
Carbon Tetrachloride	0.069	Not Detected	0.030	0.069	
Chloroform	0.16	Not Detected	0.024	0.16	
Cyclohexane	1.1	Not Detected	0.22	1.1	
Ethyl Benzene	0.97	0.085	0.050	0.88	
Heptane	1.2	Not Detected	0.22	1.2	
Hexane	3.2	Not Detected	0.19	3.2	
m,p-Xylene	2.8	0.21	0.054	2.6	
Methylene Chloride	Not Detected	0.53	0.68	Not Detected	
o-Xylene	1.1	0.074	0.054	1.0	
Tetrachloroethene	0.17	Not Detected	0.040	0.17	
Toluene	6.5	0.27	0.090	6.2	
Trichloroethene	0.090	Not Detected	0.024	0.090	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-MCAREC-LNG-020212

Lab ID#: 1202261-04A/04B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.050	Not Detected	0.017	0.050	
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	0.95	5.5	
Acetone	5.4	0.38	0.38	5.0	E
Benzene	2.2	1.3	0.30	0.90	
Carbon Tetrachloride	0.030	Not Detected	0.030	0.030	
Chloroform	0.075	Not Detected	0.024	0.075	
Cyclohexane	0.88	Not Detected	0.22	0.88	
Ethyl Benzene	0.86	0.058	0.050	0.80	
Heptane	1.1	Not Detected	0.22	1.1	
Hexane	2.1	0.29	0.38	1.8	
m,p-Xylene	3.0	0.21	0.054	2.8	
Methylene Chloride	0.49	4.9	0.68	Not Detected	
o-Xylene	1.2	0.047	0.054	1.2	
Tetrachloroethene	0.30	Not Detected	0.040	0.30	
Toluene	5.0	0.19	0.090	4.8	
Trichloroethene	0.084	Not Detected	0.024	0.084	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-MCAREC-CR-020212

Lab ID#: 1202261-05A/05B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.064	Not Detected	0.017	0.064	
2-Butanone (Methyl Ethyl Ketone)	7.6	Not Detected	0.95	7.6	
Acetone	8.4	0.41	0.38	8.0	E
Benzene	2.5	1.6	0.30	0.90	
Carbon Tetrachloride	0.051	Not Detected	0.030	0.051	
Chloroform	0.22	Not Detected	0.024	0.22	
Cyclohexane	0.88	Not Detected	0.22	0.88	
Ethyl Benzene	0.82	0.070	0.050	0.75	
Heptane	1.1	Not Detected	0.22	1.1	
Hexane	2.2	0.31	0.38	1.9	
m,p-Xylene	2.7	0.10	0.054	2.6	
Methylene Chloride	0.40	4.6	0.68	Not Detected	
o-Xylene	1.1	0.046	0.054	1.0	
Tetrachloroethene	0.17	Not Detected	0.040	0.17	
Toluene	5.2	0.23	0.090	5.0	
Trichloroethene	0.095	Not Detected	0.024	0.095	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-MCAREC-020212

Lab ID#: 1202261-06A/06B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.036	Not Detected	0.015	0.036	
Acetone	0.55	0.19	0.34	0.36	
Benzene	1.3	0.50	0.22	0.80	
Carbon Tetrachloride	0.040	Not Detected	0.024	0.040	
Cyclohexane	0.45	Not Detected	0.12	0.45	
Ethyl Benzene	0.41	0.047	0.038	0.36	
Heptane	0.66	Not Detected	0.16	0.66	
Hexane	2.2	0.16	0.28	2.0	
m,p-Xylene	1.4	0.13	0.038	1.3	
Methylene Chloride	Not Detected	0.37	0.52	Not Detected	
o-Xylene	0.58	0.040	0.040	0.54	
Tetrachloroethene	0.11	Not Detected	0.034	0.11	
Toluene	2.4	0.14	0.060	2.3	
Trichloroethene	0.035	Not Detected	0.020	0.035	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-VCHRISTI-BSMT-020212

Lab ID#: 1202261-07A/07B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.078	Not Detected	0.017	0.078	
2-Butanone (Methyl Ethyl Ketone)	2.5	Not Detected	0.95	2.5	
Acetone	5.7	Not Detected	0.19	5.7	E
Benzene	2.5	1.1	0.30	1.4	
Carbon Tetrachloride	0.038	Not Detected	0.030	0.038	
Chloroform	0.12	Not Detected	0.024	0.12	
Cyclohexane	0.98	Not Detected	0.22	0.98	
Ethyl Benzene	0.94	0.068	0.050	0.87	
Heptane	1.0	Not Detected	0.22	1.0	
Hexane	4.2	Not Detected	0.19	4.2	
m,p-Xylene	2.9	0.23	0.056	2.7	
Methylene Chloride	Not Detected	0.58	0.68	Not Detected	
o-Xylene	1.1	0.057	0.054	1.0	
Tetrachloroethene	0.12	Not Detected	0.040	0.12	
Toluene	9.5	0.24	0.092	9.3	E
Trichloroethene	0.14	Not Detected	0.024	0.14	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-VCHRISTI-104-020212

Lab ID#: 1202261-08A/08B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.066	Not Detected	0.017	0.066	
2-Butanone (Methyl Ethyl Ketone)	3.7	Not Detected	0.95	3.7	
Acetone	10	0.30	0.38	9.7	E
Benzene	2.7	1.1	0.30	1.6	
Chloroform	0.13	Not Detected	0.024	0.13	
Cyclohexane	1.0	Not Detected	0.22	1.0	
Ethyl Benzene	0.94	0.054	0.050	0.89	
Heptane	1.0	Not Detected	0.22	1.0	
Hexane	2.8	0.44	0.38	2.4	
m,p-Xylene	2.9	0.089	0.056	2.8	
Methylene Chloride	0.48	4.8	0.68	Not Detected	
o-Xylene	1.3	0.039	0.054	1.3	
Tetrachloroethene	0.12	Not Detected	0.040	0.12	
Toluene	9.2	0.17	0.092	9.0	E
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-VCHRISTI-108-020212

Lab ID#: 1202261-09A/09B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.057	Not Detected	0.017	0.057	
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	0.95	4.0	
Acetone	5.6	0.41	0.38	5.2	E
Benzene	2.4	1.3	0.30	1.1	
Chloroform	0.17	Not Detected	0.024	0.17	
Cyclohexane	0.83	Not Detected	0.22	0.83	
Ethyl Benzene	0.82	0.048	0.050	0.77	
Heptane	0.88	Not Detected	0.22	0.88	
Hexane	2.5	0.42	0.38	2.1	
m,p-Xylene	2.6	0.10	0.056	2.5	
Methylene Chloride	0.59	4.6	0.68	Not Detected	
o-Xylene	1.1	0.034	0.054	1.1	
Tetrachloroethene	0.12	Not Detected	0.040	0.12	
Toluene	8.1	0.18	0.092	7.9	
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-VCHRISTI-113-020212

Lab ID#: 1202261-10A/10B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.077	Not Detected	0.017	0.077	
2-Butanone (Methyl Ethyl Ketone)	2.3	Not Detected	0.95	2.3	
Acetone	4.8	0.21	0.38	4.6	E
Benzene	2.2	1.2	0.30	1.0	
Carbon Tetrachloride	0.040	Not Detected	0.030	0.040	
Chloroform	0.12	Not Detected	0.024	0.12	
Cyclohexane	0.94	Not Detected	0.22	0.94	
Ethyl Benzene	0.87	0.056	0.050	0.81	
Heptane	0.98	Not Detected	0.22	0.98	
Hexane	5.9	0.20	0.38	5.7	
m,p-Xylene	2.8	0.21	0.056	2.6	
Methylene Chloride	Not Detected	0.52	0.68	Not Detected	
o-Xylene	1.1	0.050	0.054	1.0	
Tetrachloroethene	0.12	Not Detected	0.040	0.12	
Toluene	9.0	0.20	0.092	8.8	E
Trichloroethene	0.13	Not Detected	0.024	0.13	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-VCHRISTI-020212

Lab ID#: 1202261-11A/11B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.040	Not Detected	0.016	0.040	
2-Butanone (Methyl Ethyl Ketone)	0.48	Not Detected	0.38	0.48	
Acetone	0.90	0.25	0.34	0.65	
Benzene	1.2	0.51	0.22	0.69	
Carbon Tetrachloride	0.065	Not Detected	0.024	0.065	
Cyclohexane	0.37	Not Detected	0.12	0.37	
Ethyl Benzene	0.43	0.037	0.038	0.39	
Heptane	0.49	Not Detected	0.16	0.49	
Hexane	2.0	0.22	0.28	1.8	
m,p-Xylene	1.5	0.055	0.038	1.4	
Methylene Chloride	0.45	4.0	0.52	Not Detected	
o-Xylene	0.72	0.024	0.040	0.70	
Tetrachloroethene	0.096	Not Detected	0.034	0.096	
Toluene	6.1	0.12	0.060	6.0	E
Trichloroethene	0.095	Not Detected	0.020	0.095	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-VCHRISTIQ-020212

Lab ID#: 1202261-12A/12B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.037	Not Detected	0.016	0.037	
Acetone	0.88	0.31	0.34	0.57	
Benzene	1.3	0.50	0.22	0.80	
Carbon Tetrachloride	0.042	Not Detected	0.024	0.042	
Cyclohexane	0.35	Not Detected	0.12	0.35	
Ethyl Benzene	0.45	0.045	0.038	0.40	
Heptane	0.45	Not Detected	0.16	0.45	
Hexane	3.0	Not Detected	0.14	3.0	
m,p-Xylene	1.7	0.29	0.038	1.4	
Methylene Chloride	Not Detected	0.33	0.52	Not Detected	
o-Xylene	0.72	0.044	0.040	0.68	
Tetrachloroethene	0.092	Not Detected	0.034	0.092	
Toluene	6.0	0.21	0.060	5.8	E
Trichloroethene	0.075	Not Detected	0.020	0.075	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-ENVIS104-020212

Lab ID#: 1202261-13A/13B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.044	Not Detected	0.029	0.044	
1,2-Dichloroethane	0.068	Not Detected	0.017	0.068	
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	0.95	5.4	
Acetone	35	0.48	0.38	34	E
Benzene	1.6	1.3	0.30	0.30	
Carbon Tetrachloride	0.040	Not Detected	0.030	0.040	
Chloroform	0.25	Not Detected	0.024	0.25	
Cyclohexane	0.98	Not Detected	0.22	0.98	
Ethyl Benzene	1.0	0.078	0.050	0.92	
Heptane	3.1	Not Detected	0.22	3.1	
Hexane	1.6	0.43	0.38	1.2	
m,p-Xylene	3.1	0.16	0.056	2.9	
Methyl tert-butyl ether	0.40	Not Detected	0.18	0.40	
Methylene Chloride	0.39	5.4	0.68	Not Detected	
o-Xylene	1.1	0.055	0.054	1.0	
Tetrachloroethene	3.4	Not Detected	0.040	3.4	
Toluene	4.9	0.28	0.092	4.6	
Trichloroethene	0.11	Not Detected	0.024	0.11	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-ENVISGYM-020212

Lab ID#: 1202261-14A/14B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.033	Not Detected	0.029	0.033	
1,2-Dichloroethane	0.062	Not Detected	0.017	0.062	
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	0.95	5.5	
Acetone	50	0.48	0.38	50	E
Benzene	2.4	1.6	0.30	0.80	
Carbon Tetrachloride	0.032	Not Detected	0.030	0.032	
Chloroform	0.30	Not Detected	0.024	0.30	
Cyclohexane	0.86	Not Detected	0.22	0.86	
Ethyl Benzene	1.0	0.084	0.050	0.92	
Heptane	2.9	Not Detected	0.22	2.9	
Hexane	1.5	0.45	0.38	1.0	
m,p-Xylene	3.2	0.25	0.056	3.0	
Methyl tert-butyl ether	0.70	Not Detected	0.18	0.70	
Methylene Chloride	0.78	5.1	0.68	Not Detected	
o-Xylene	1.0	0.055	0.054	0.94	
Tetrachloroethene	2.3	Not Detected	0.040	2.3	
Toluene	4.5	0.27	0.092	4.2	
Trichloroethene	0.10	Not Detected	0.024	0.10	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-ENVISNUR-020212

Lab ID#: 1202261-15A/15B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.053	Not Detected	0.029	0.053	
1,2-Dichloroethane	0.085	Not Detected	0.017	0.085	
2-Butanone (Methyl Ethyl Ketone)	3.6	Not Detected	0.95	3.6	
Acetone	66	0.45	0.38	66	E
Benzene	2.1	1.1	0.30	1.0	
Carbon Tetrachloride	0.039	Not Detected	0.030	0.039	
Chloroform	0.16	Not Detected	0.024	0.16	
Cyclohexane	1.1	Not Detected	0.22	1.1	
Ethyl Benzene	0.87	0.085	0.050	0.78	
Heptane	3.5	Not Detected	0.22	3.5	
Hexane	3.5	Not Detected	0.19	3.5	
m,p-Xylene	2.8	0.28	0.056	2.5	
Methylene Chloride	Not Detected	0.51	0.68	Not Detected	
o-Xylene	1.0	0.074	0.054	0.93	
Tetrachloroethene	1.0	Not Detected	0.040	1.0	
Toluene	5.6	0.26	0.092	5.3	
Trichloroethene	0.12	Not Detected	0.024	0.12	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-ENVISNURQ-020212

Lab ID#: 1202261-16A/16B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.036	Not Detected	0.029	0.036	
1,2-Dichloroethane	0.074	Not Detected	0.017	0.074	
2-Butanone (Methyl Ethyl Ketone)	6.2	Not Detected	0.95	6.2	
Acetone	70	0.56	0.38	69	E
Benzene	2.1	0.97	0.30	1.1	
Chloroform	0.16	Not Detected	0.024	0.16	
Cyclohexane	1.1	Not Detected	0.22	1.1	
Ethyl Benzene	0.91	0.052	0.050	0.86	
Heptane	3.5	Not Detected	0.22	3.5	
Hexane	1.6	0.43	0.38	1.2	
m,p-Xylene	3.0	0.082	0.056	2.9	
Methylene Chloride	0.42	4.6	0.68	Not Detected	
o-Xylene	1.1	0.035	0.054	1.1	
Tetrachloroethene	0.94	Not Detected	0.040	0.94	
Toluene	5.6	0.17	0.092	5.4	
Trichloroethene	0.11	Not Detected	0.024	0.11	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-UMC109C-020212

Lab ID#: 1202261-17A/17B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.29	Not Detected	0.017	0.29	
2-Butanone (Methyl Ethyl Ketone)	7.2	Not Detected	0.95	7.2	
Acetone	5.5	0.46	0.38	5.0	E
Benzene	2.6	1.5	0.30	1.1	
Carbon Tetrachloride	0.031	Not Detected	0.030	0.031	
Chloroform	0.31	Not Detected	0.024	0.31	
Cyclohexane	0.55	Not Detected	0.22	0.55	
Ethyl Benzene	0.79	0.062	0.050	0.73	
Heptane	1.1	Not Detected	0.22	1.1	
Hexane	1.6	0.41	0.38	1.2	
m,p-Xylene	2.8	0.18	0.056	2.6	
Methylene Chloride	0.48	4.4	0.68	Not Detected	
o-Xylene	1.3	0.040	0.054	1.3	
Tetrachloroethene	0.15	Not Detected	0.040	0.15	
Toluene	6.8	0.20	0.092	6.6	
Trichloroethene	0.45	Not Detected	0.024	0.45	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: IAP-NIC-UMCNUR-020212

Lab ID#: 1202261-18A/18B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.099	Not Detected	0.017	0.099	
2-Butanone (Methyl Ethyl Ketone)	5.2	Not Detected	0.95	5.2	
Acetone	4.3	0.23	0.38	4.1	E
Benzene	2.7	1.4	0.30	1.3	
Carbon Tetrachloride	0.032	Not Detected	0.030	0.032	
Chloroform	0.19	Not Detected	0.024	0.19	
Cyclohexane	0.66	Not Detected	0.22	0.66	
Ethyl Benzene	0.73	0.067	0.050	0.66	
Heptane	1.9	Not Detected	0.22	1.9	
Hexane	4.1	0.27	0.38	3.8	
m,p-Xylene	2.7	0.14	0.056	2.6	
Methylene Chloride	Not Detected	0.64	0.68	Not Detected	
o-Xylene	1.1	0.056	0.056	1.0	
Tetrachloroethene	0.15	Not Detected	0.040	0.15	
Toluene	7.5	0.20	0.092	7.3	
Trichloroethene	0.42	Not Detected	0.024	0.42	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-UMC-020212

Lab ID#: 1202261-19A/19B

Collection Date: 02/09/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,2-Dichloroethane	0.028	Not Detected	0.016	0.028	
Acetone	0.72	0.29	0.34	0.43	
Benzene	1.2	0.64	0.22	0.56	
Carbon Tetrachloride	0.040	Not Detected	0.024	0.040	
Cyclohexane	0.28	Not Detected	0.12	0.28	
Ethyl Benzene	0.40	0.045	0.038	0.36	
Heptane	0.42	Not Detected	0.16	0.42	
Hexane	1.1	0.31	0.28	0.79	
m,p-Xylene	1.3	0.058	0.038	1.2	
Methylene Chloride	1.1	3.4	0.52	Not Detected	
o-Xylene	0.69	0.031	0.040	0.66	
Tetrachloroethene	0.10	Not Detected	0.034	0.10	
Toluene	2.3	0.16	0.060	2.1	
Trichloroethene	0.059	Not Detected	0.020	0.059	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-1134INDI-012812

Lab ID#: 1202261-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	190	0.96	17000 E	84 E
Methylene Chloride	35	0.22	48	0.30
Hexane	18	0.12	360	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.60	1000 E	10 E
Chloroform	2.4	0.015	74	0.46
1,1,1-Trichloroethane	2.7	0.018	4.7	0.032
Cyclohexane	17	0.14	120	0.96
Carbon Tetrachloride	3.1	0.019	22	0.13
Benzene	16	0.095	380	2.2
1,2-Dichloroethane	2.0	0.011	680	3.7
Heptane	80	0.54	260	1.8
Trichloroethene	2.7	0.015	17	0.096
Toluene	4.0	0.029	1100 E	8.0 E
Tetrachloroethene	4.0	0.025	21	0.13
Ethyl Benzene	2.2	0.016	130	0.92
m,p-Xylene	2.2	0.017	400	3.1
o-Xylene	2.2	0.017	150	1.2

Client Sample ID: IAP-NIC-1134INDI-012812 Blank

Lab ID#: 1202261-01B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.12	320	1.6
Methylene Chloride	35	0.22	530	3.3
Hexane	18	0.12	42	0.28
Benzene	16	0.095	170	0.99
Toluene	4.0	0.029	17	0.12
Ethyl Benzene	2.2	0.016	5.7	0.040
m,p-Xylene	2.2	0.017	9.0	0.071
o-Xylene	2.2	0.017	3.6	0.028

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-19THWASH-020112

Lab ID#: 1202261-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.16	120	0.84
Methylene Chloride	35	0.25	97	0.70
Hexane	18	0.13	310	2.3
2-Butanone (Methyl Ethyl Ketone)	59	0.37	93	0.58
Chloroform	2.4	0.019	3.4	0.027
1,1,1-Trichloroethane	2.7	0.020	3.1	0.023
Cyclohexane	17	0.11	110	0.75
Carbon Tetrachloride	3.1	0.023	10	0.076
Benzene	16	0.10	230	1.5
1,2-Dichloroethane	2.0	0.015	6.6	0.049
Heptane	20	0.15	140	1.0
Trichloroethene	2.7	0.019	20	0.14
Toluene	4.0	0.029	660	4.8
Tetrachloroethene	4.0	0.032	19	0.15
Ethyl Benzene	2.2	0.018	110	0.86
m,p-Xylene	2.2	0.018	360	3.0
o-Xylene	2.2	0.019	140	1.2

Client Sample ID: OAP-NIC-19THWASH-020112 Blank

Lab ID#: 1202261-02B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.16	67	0.46
Methylene Chloride	35	0.25	240	1.7
Hexane	18	0.13	38	0.28
Benzene	16	0.10	140	0.93
Toluene	4.0	0.029	20	0.14
Ethyl Benzene	2.2	0.018	6.6	0.054
m,p-Xylene	2.2	0.018	14	0.12
o-Xylene	2.2	0.019	4.0	0.035

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-MCAREC-OF-020212

Lab ID#: 1202261-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	690 E	5.5 E
Hexane	18	0.19	310	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	160	2.6
Chloroform	2.4	0.024	16	0.16
Cyclohexane	17	0.22	86	1.1
Carbon Tetrachloride	3.1	0.030	7.1	0.069
Benzene	16	0.15	230	2.1
1,2-Dichloroethane	2.0	0.017	7.3	0.063
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	10	0.090
Toluene	4.0	0.045	570	6.5
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	86	0.97
m,p-Xylene	2.2	0.027	230	2.8
o-Xylene	2.2	0.027	86	1.1

Client Sample ID: IAP-NIC-MCAREC-OF-020212 Blank

Lab ID#: 1202261-03B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	32	0.26
Methylene Chloride	35	0.34	54	0.53
Benzene	16	0.15	110	1.0
Toluene	4.0	0.045	24	0.27
Ethyl Benzene	2.2	0.025	7.6	0.085
m,p-Xylene	2.2	0.027	17	0.21
o-Xylene	2.2	0.027	5.9	0.074

Client Sample ID: IAP-NIC-MCAREC-LNG-020212

Lab ID#: 1202261-04A

Air Toxics LTD.
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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-MCAREC-LNG-020212

Lab ID#: 1202261-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	670 E	5.4 E
Methylene Chloride	35	0.34	50	0.49
Hexane	18	0.19	200	2.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	340	5.5
Chloroform	2.4	0.024	7.5	0.075
Cyclohexane	17	0.22	67	0.88
Carbon Tetrachloride	3.1	0.030	3.1	0.030
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	5.8	0.050
Heptane	20	0.22	98	1.1
Trichloroethene	2.7	0.024	9.5	0.084
Toluene	4.0	0.045	440	5.0
Tetrachloroethene	4.0	0.040	30	0.30
Ethyl Benzene	2.2	0.025	77	0.86
m,p-Xylene	2.2	0.027	240	3.0
o-Xylene	2.2	0.027	98	1.2

Client Sample ID: IAP-NIC-MCAREC-LNG-020212 Blank

Lab ID#: 1202261-04B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	47	0.38
Methylene Chloride	35	0.34	500	4.9
Hexane	18	0.19	28	0.29
Benzene	16	0.15	140	1.3
Toluene	4.0	0.045	17	0.19
Ethyl Benzene	2.2	0.025	5.2	0.058
m,p-Xylene	2.2	0.027	17	0.21
o-Xylene	2.2	0.027	3.8	0.047

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-MCAREC-CR-020212

Lab ID#: 1202261-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1000 E	8.4 E
Methylene Chloride	35	0.34	41	0.40
Hexane	18	0.19	210	2.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	470	7.6
Chloroform	2.4	0.024	22	0.22
Cyclohexane	17	0.22	67	0.88
Carbon Tetrachloride	3.1	0.030	5.3	0.051
Benzene	16	0.15	270	2.5
1,2-Dichloroethane	2.0	0.017	7.5	0.064
Heptane	20	0.22	110	1.1
Trichloroethene	2.7	0.024	11	0.095
Toluene	4.0	0.045	460	5.2
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	74	0.82
m,p-Xylene	2.2	0.027	220	2.7
o-Xylene	2.2	0.027	89	1.1

Client Sample ID: IAP-NIC-MCAREC-CR-020212 Blank

Lab ID#: 1202261-05B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	51	0.41
Methylene Chloride	35	0.34	470	4.6
Hexane	18	0.19	30	0.31
Benzene	16	0.15	170	1.6
Toluene	4.0	0.045	20	0.23
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.027	8.0	0.10
o-Xylene	2.2	0.027	3.7	0.046

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-MCAREC-020212

Lab ID#: 1202261-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	77	0.55
Hexane	18	0.14	280	2.2
Cyclohexane	17	0.12	64	0.45
Carbon Tetrachloride	3.1	0.024	5.2	0.040
Benzene	16	0.11	190	1.3
1,2-Dichloroethane	2.0	0.015	4.7	0.036
Heptane	20	0.16	83	0.66
Trichloroethene	2.7	0.020	4.7	0.035
Toluene	4.0	0.030	310	2.4
Tetrachloroethene	4.0	0.034	13	0.11
Ethyl Benzene	2.2	0.019	48	0.41
m,p-Xylene	2.2	0.019	160	1.4
o-Xylene	2.2	0.020	63	0.58

Client Sample ID: OAP-NIC-MCAREC-020212 Blank

Lab ID#: 1202261-06B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	27	0.19
Methylene Chloride	35	0.26	49	0.37
Hexane	18	0.14	21	0.16
Benzene	16	0.11	73	0.50
Toluene	4.0	0.030	19	0.14
Ethyl Benzene	2.2	0.019	5.5	0.047
m,p-Xylene	2.2	0.019	15	0.13
o-Xylene	2.2	0.020	4.3	0.040

Client Sample ID: IAP-NIC-VCHRISTI-BSMT-020212

Lab ID#: 1202261-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-VCHRISTI-BSMT-020212

Lab ID#: 1202261-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	710 E	5.7 E
Hexane	18	0.19	390	4.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	150	2.5
Chloroform	2.4	0.024	12	0.12
Cyclohexane	17	0.22	75	0.98
Carbon Tetrachloride	3.1	0.030	3.9	0.038
Benzene	16	0.15	260	2.5
1,2-Dichloroethane	2.0	0.017	9.1	0.078
Heptane	20	0.22	94	1.0
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.046	830 E	9.5 E
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	83	0.94
m,p-Xylene	2.2	0.028	230	2.9
o-Xylene	2.2	0.027	89	1.1

Client Sample ID: IAP-NIC-VCHRISTI-BSMT-020212 Blank

Lab ID#: 1202261-07B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Methylene Chloride	35	0.34	59	0.58
Benzene	16	0.15	120	1.1
Toluene	4.0	0.046	22	0.24
Ethyl Benzene	2.2	0.025	6.1	0.068
m,p-Xylene	2.2	0.028	18	0.23
o-Xylene	2.2	0.027	4.6	0.057

Client Sample ID: IAP-NIC-VCHRISTI-104-020212

Lab ID#: 1202261-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-VCHRISTI-104-020212

Lab ID#: 1202261-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	1200 E	10 E
Methylene Chloride	35	0.34	49	0.48
Hexane	18	0.19	270	2.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	230	3.7
Chloroform	2.4	0.024	13	0.13
Cyclohexane	17	0.22	78	1.0
Benzene	16	0.15	280	2.7
1,2-Dichloroethane	2.0	0.017	7.7	0.066
Heptane	20	0.22	93	1.0
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	810 E	9.2 E
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	84	0.94
m,p-Xylene	2.2	0.028	240	2.9
o-Xylene	2.2	0.027	100	1.3

Client Sample ID: IAP-NIC-VCHRISTI-104-020212 Blank

Lab ID#: 1202261-08B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	37	0.30
Methylene Chloride	35	0.34	490	4.8
Hexane	18	0.19	41	0.44
Benzene	16	0.15	120	1.1
Toluene	4.0	0.046	15	0.17
Ethyl Benzene	2.2	0.025	4.8	0.054
m,p-Xylene	2.2	0.028	7.1	0.089
o-Xylene	2.2	0.027	3.1	0.039

Client Sample ID: IAP-NIC-VCHRISTI-108-020212

Lab ID#: 1202261-09A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-VCHRISTI-108-020212

Lab ID#: 1202261-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	690 E	5.6 E
Methylene Chloride	35	0.34	60	0.59
Hexane	18	0.19	240	2.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	250	4.0
Chloroform	2.4	0.024	17	0.17
Cyclohexane	17	0.22	63	0.83
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	6.6	0.057
Heptane	20	0.22	82	0.88
Trichloroethene	2.7	0.024	13	0.12
Toluene	4.0	0.046	720	8.1
Tetrachloroethene	4.0	0.040	11	0.12
Ethyl Benzene	2.2	0.025	73	0.82
m,p-Xylene	2.2	0.028	200	2.6
o-Xylene	2.2	0.027	90	1.1

Client Sample ID: IAP-NIC-VCHRISTI-108-020212 Blank

Lab ID#: 1202261-09B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	52	0.41
Methylene Chloride	35	0.34	470	4.6
Hexane	18	0.19	40	0.42
Benzene	16	0.15	140	1.3
Toluene	4.0	0.046	16	0.18
Ethyl Benzene	2.2	0.025	4.3	0.048
m,p-Xylene	2.2	0.028	8.1	0.10
o-Xylene	2.2	0.027	2.7	0.034

Client Sample ID: IAP-NIC-VCHRISTI-113-020212

Lab ID#: 1202261-10A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-VCHRISTI-113-020212

Lab ID#: 1202261-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	590 E	4.8 E
Hexane	18	0.19	560	5.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	140	2.3
Chloroform	2.4	0.024	13	0.12
Cyclohexane	17	0.22	72	0.94
Carbon Tetrachloride	3.1	0.030	4.1	0.040
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	9.0	0.077
Heptane	20	0.22	91	0.98
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.046	790 E	9.0 E
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	78	0.87
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.027	91	1.1

Client Sample ID: IAP-NIC-VCHRISTI-113-020212 Blank

Lab ID#: 1202261-10B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	27	0.21
Methylene Chloride	35	0.34	52	0.52
Hexane	18	0.19	19	0.20
Benzene	16	0.15	120	1.2
Toluene	4.0	0.046	18	0.20
Ethyl Benzene	2.2	0.025	5.0	0.056
m,p-Xylene	2.2	0.028	17	0.21
o-Xylene	2.2	0.027	4.0	0.050

Client Sample ID: OAP-NIC-VCHRISTI-020212

Lab ID#: 1202261-11A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-VCHRISTI-020212

Lab ID#: 1202261-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	120	0.90
Methylene Chloride	35	0.26	60	0.45
Hexane	18	0.14	260	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.38	74	0.48
Cyclohexane	17	0.12	52	0.37
Carbon Tetrachloride	3.1	0.024	8.3	0.065
Benzene	16	0.11	180	1.2
1,2-Dichloroethane	2.0	0.016	5.1	0.040
Heptane	20	0.16	62	0.49
Trichloroethene	2.7	0.020	13	0.095
Toluene	4.0	0.030	810 E	6.1 E
Tetrachloroethene	4.0	0.034	11	0.096
Ethyl Benzene	2.2	0.019	50	0.43
m,p-Xylene	2.2	0.019	170	1.5
o-Xylene	2.2	0.020	78	0.72

Client Sample ID: OAP-NIC-VCHRISTI-020212 Blank

Lab ID#: 1202261-11B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	35	0.25
Methylene Chloride	35	0.26	530	4.0
Hexane	18	0.14	29	0.22
Benzene	16	0.11	75	0.51
Toluene	4.0	0.030	16	0.12
Ethyl Benzene	2.2	0.019	4.3	0.037
m,p-Xylene	2.2	0.019	6.3	0.055
o-Xylene	2.2	0.020	2.6	0.024

Client Sample ID: OAP-NIC-VCHRISTIQ-020212

Lab ID#: 1202261-12A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-VCHRISTIQ-020212

Lab ID#: 1202261-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	120	0.88
Hexane	18	0.14	380	3.0
Cyclohexane	17	0.12	50	0.35
Carbon Tetrachloride	3.1	0.024	5.4	0.042
Benzene	16	0.11	200	1.3
1,2-Dichloroethane	2.0	0.016	4.8	0.037
Heptane	20	0.16	57	0.45
Trichloroethene	2.7	0.020	10	0.075
Toluene	4.0	0.030	800 E	6.0 E
Tetrachloroethene	4.0	0.034	11	0.092
Ethyl Benzene	2.2	0.019	53	0.45
m,p-Xylene	2.2	0.019	190	1.7
o-Xylene	2.2	0.020	78	0.72

Client Sample ID: OAP-NIC-VCHRISTIQ-020212 Blank

Lab ID#: 1202261-12B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	43	0.31
Methylene Chloride	35	0.26	44	0.33
Benzene	16	0.11	72	0.50
Toluene	4.0	0.030	28	0.21
Ethyl Benzene	2.2	0.019	5.3	0.045
m,p-Xylene	2.2	0.019	33	0.29
o-Xylene	2.2	0.020	4.8	0.044

Client Sample ID: IAP-NIC-ENVIS104-020212

Lab ID#: 1202261-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	4400 E	35 E

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-ENVIS104-020212

Lab ID#: 1202261-13A

Methylene Chloride	35	0.34	40	0.39
Methyl tert-butyl ether	18	0.18	39	0.40
Hexane	18	0.19	150	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	330	5.4
Chloroform	2.4	0.024	25	0.25
1,1,1-Trichloroethane	2.7	0.029	4.1	0.044
Cyclohexane	17	0.22	75	0.98
Carbon Tetrachloride	3.1	0.030	4.1	0.040
Benzene	16	0.15	170	1.6
1,2-Dichloroethane	2.0	0.017	7.9	0.068
Heptane	20	0.22	290	3.1
Trichloroethene	2.7	0.024	12	0.11
Toluene	4.0	0.046	430	4.9
Tetrachloroethene	4.0	0.040	330	3.4
Ethyl Benzene	2.2	0.025	90	1.0
m,p-Xylene	2.2	0.028	250	3.1
o-Xylene	2.2	0.027	86	1.1

Client Sample ID: IAP-NIC-ENVIS104-020212 Blank

Lab ID#: 1202261-13B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	59	0.48
Methylene Chloride	35	0.34	540	5.4
Hexane	18	0.19	41	0.43
Benzene	16	0.15	140	1.3
Toluene	4.0	0.046	25	0.28
Ethyl Benzene	2.2	0.025	7.0	0.078
m,p-Xylene	2.2	0.028	13	0.16
o-Xylene	2.2	0.027	4.4	0.055

Client Sample ID: IAP-NIC-ENVISGYM-020212

Lab ID#: 1202261-14A

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-ENVISGYM-020212

Lab ID#: 1202261-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	6200 E	50 E
Methylene Chloride	35	0.34	80	0.78
Methyl tert-butyl ether	18	0.18	68	0.70
Hexane	18	0.19	140	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	340	5.5
Chloroform	2.4	0.024	30	0.30
1,1,1-Trichloroethane	2.7	0.029	3.1	0.033
Cyclohexane	17	0.22	66	0.86
Carbon Tetrachloride	3.1	0.030	3.3	0.032
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	7.2	0.062
Heptane	20	0.22	270	2.9
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	400	4.5
Tetrachloroethene	4.0	0.040	220	2.3
Ethyl Benzene	2.2	0.025	90	1.0
m,p-Xylene	2.2	0.028	250	3.2
o-Xylene	2.2	0.027	80	1.0

Client Sample ID: IAP-NIC-ENVISGYM-020212 Blank

Lab ID#: 1202261-14B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	60	0.48
Methylene Chloride	35	0.34	520	5.1
Hexane	18	0.19	42	0.45
Benzene	16	0.15	160	1.6
Toluene	4.0	0.046	24	0.27
Ethyl Benzene	2.2	0.025	7.5	0.084
m,p-Xylene	2.2	0.028	20	0.25
o-Xylene	2.2	0.027	4.4	0.055

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-ENVISNUR-020212

Lab ID#: 1202261-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	8300 E	66 E
Hexane	18	0.19	330	3.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	220	3.6
Chloroform	2.4	0.024	16	0.16
1,1,1-Trichloroethane	2.7	0.029	4.9	0.053
Cyclohexane	17	0.22	84	1.1
Carbon Tetrachloride	3.1	0.030	4.0	0.039
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	9.9	0.085
Heptane	20	0.22	330	3.5
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	500	5.6
Tetrachloroethene	4.0	0.040	99	1.0
Ethyl Benzene	2.2	0.025	78	0.87
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.027	84	1.0

Client Sample ID: IAP-NIC-ENVISNUR-020212 Blank

Lab ID#: 1202261-15B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	56	0.45
Methylene Chloride	35	0.34	52	0.51
Benzene	16	0.15	120	1.1
Toluene	4.0	0.046	23	0.26
Ethyl Benzene	2.2	0.025	7.6	0.085
m,p-Xylene	2.2	0.028	22	0.28
o-Xylene	2.2	0.027	5.9	0.074

Client Sample ID: IAP-NIC-ENVISNURQ-020212

Lab ID#: 1202261-16A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-ENVISNURQ-020212

Lab ID#: 1202261-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	8800 E	70 E
Methylene Chloride	35	0.34	42	0.42
Hexane	18	0.19	160	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	380	6.2
Chloroform	2.4	0.024	16	0.16
1,1,1-Trichloroethane	2.7	0.029	3.3	0.036
Cyclohexane	17	0.22	83	1.1
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	8.6	0.074
Heptane	20	0.22	330	3.5
Trichloroethene	2.7	0.024	13	0.11
Toluene	4.0	0.046	490	5.6
Tetrachloroethene	4.0	0.040	92	0.94
Ethyl Benzene	2.2	0.025	81	0.91
m,p-Xylene	2.2	0.028	240	3.0
o-Xylene	2.2	0.027	89	1.1

Client Sample ID: IAP-NIC-ENVISNURQ-020212 Blank

Lab ID#: 1202261-16B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	70	0.56
Methylene Chloride	35	0.34	470	4.6
Hexane	18	0.19	41	0.43
Benzene	16	0.15	100	0.97
Toluene	4.0	0.046	15	0.17
Ethyl Benzene	2.2	0.025	4.6	0.052
m,p-Xylene	2.2	0.028	6.6	0.082
o-Xylene	2.2	0.027	2.8	0.035

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-UMC109C-020212

Lab ID#: 1202261-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	680 E	5.5 E
Methylene Chloride	35	0.34	48	0.48
Hexane	18	0.19	150	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	440	7.2
Chloroform	2.4	0.024	31	0.31
Cyclohexane	17	0.22	42	0.55
Carbon Tetrachloride	3.1	0.030	3.2	0.031
Benzene	16	0.15	270	2.6
1,2-Dichloroethane	2.0	0.017	33	0.29
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	51	0.45
Toluene	4.0	0.046	600	6.8
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	71	0.79
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.027	100	1.3

Client Sample ID: IAP-NIC-UMC109C-020212 Blank

Lab ID#: 1202261-17B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	57	0.46
Methylene Chloride	35	0.34	450	4.4
Hexane	18	0.19	39	0.41
Benzene	16	0.15	160	1.5
Toluene	4.0	0.046	17	0.20
Ethyl Benzene	2.2	0.025	5.5	0.062
m,p-Xylene	2.2	0.028	14	0.18
o-Xylene	2.2	0.027	3.2	0.040

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: IAP-NIC-UMCNUR-020212

Lab ID#: 1202261-18A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	540 E	4.3 E
Hexane	18	0.19	390	4.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	320	5.2
Chloroform	2.4	0.024	19	0.19
Cyclohexane	17	0.22	51	0.66
Carbon Tetrachloride	3.1	0.030	3.3	0.032
Benzene	16	0.15	290	2.7
1,2-Dichloroethane	2.0	0.017	12	0.099
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	48	0.42
Toluene	4.0	0.046	660	7.5
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	65	0.73
m,p-Xylene	2.2	0.028	220	2.7
o-Xylene	2.2	0.028	86	1.1

Client Sample ID: IAP-NIC-UMCNUR-020212 Blank

Lab ID#: 1202261-18B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.19	29	0.23
Methylene Chloride	35	0.34	65	0.64
Hexane	18	0.19	26	0.27
Benzene	16	0.15	150	1.4
Toluene	4.0	0.046	18	0.20
Ethyl Benzene	2.2	0.025	6.0	0.067
m,p-Xylene	2.2	0.028	12	0.14
o-Xylene	2.2	0.028	4.5	0.056

Client Sample ID: OAP-NIC-UMC-020212

Lab ID#: 1202261-19A

Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-UMC-020212

Lab ID#: 1202261-19A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	99	0.72
Methylene Chloride	35	0.26	150	1.1
Hexane	18	0.14	140	1.1
Cyclohexane	17	0.12	40	0.28
Carbon Tetrachloride	3.1	0.024	5.1	0.040
Benzene	16	0.11	170	1.2
1,2-Dichloroethane	2.0	0.016	3.6	0.028
Heptane	20	0.16	52	0.42
Trichloroethene	2.7	0.020	8.0	0.059
Toluene	4.0	0.030	300	2.3
Tetrachloroethene	4.0	0.034	12	0.10
Ethyl Benzene	2.2	0.019	47	0.40
m,p-Xylene	2.2	0.019	150	1.3
o-Xylene	2.2	0.020	74	0.69

Client Sample ID: OAP-NIC-UMC-020212 Blank

Lab ID#: 1202261-19B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.17	40	0.29
Methylene Chloride	35	0.26	450	3.4
Hexane	18	0.14	40	0.31
Benzene	16	0.11	92	0.64
Toluene	4.0	0.030	20	0.16
Ethyl Benzene	2.2	0.019	5.3	0.045
m,p-Xylene	2.2	0.019	6.7	0.058
o-Xylene	2.2	0.020	3.3	0.031

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1134INDI-012812

Lab ID#: 1202261-01A

VOC BY PASSIVE SAMPLER

File Name:	**6021507**	**Date of Extraction: NA**	**Date of Collection: 2/8/12 4:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 12:17 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0048	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Acetone	190	0.96	17000 E	84 E
Methylene Chloride	35	0.22	48	0.30
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.012	Not Detected	Not Detected
Hexane	18	0.12	360	2.4
2-Butanone (Methyl Ethyl Ketone)	59	0.60	1000 E	10 E
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	74	0.46
1,1,1-Trichloroethane	2.7	0.018	4.7	0.032
Cyclohexane	17	0.14	120	0.96
Carbon Tetrachloride	3.1	0.019	22	0.13
Benzene	16	0.095	380	2.2
1,2-Dichloroethane	2.0	0.011	680	3.7
Heptane	80	0.54	260	1.8
Trichloroethene	2.7	0.015	17	0.096
Toluene	4.0	0.029	1100 E	8.0 E
Tetrachloroethene	4.0	0.025	21	0.13
Ethyl Benzene	2.2	0.016	130	0.92
m,p-Xylene	2.2	0.017	400	3.1
o-Xylene	2.2	0.017	150	1.2
1,1-Dichloroethane	2.0	0.0097	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Acetone and Heptane were reported from file #6021608, analyzed on 2/16/12 with a dilution factor of 4.0.
Temperature = 69.8F , duration time = 16031 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-1134INDI-012812 Blank

Lab ID#: 1202261-01B

VOC BY PASSIVE SAMPLER

File Name:	**6021506**	**Date of Extraction: NA**	**Date of Collection: 2/8/12 4:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 11:45 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0048	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Acetone	24	0.12	320	1.6
Methylene Chloride	35	0.22	530	3.3
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.012	Not Detected	Not Detected
Hexane	18	0.12	42	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.60	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.018	Not Detected	Not Detected
Cyclohexane	17	0.14	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.019	Not Detected	Not Detected
Benzene	16	0.095	170	0.99
1,2-Dichloroethane	2.0	0.011	Not Detected	Not Detected
Heptane	20	0.14	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.029	17	0.12
Tetrachloroethene	4.0	0.025	Not Detected	Not Detected
Ethyl Benzene	2.2	0.016	5.7	0.040
m,p-Xylene	2.2	0.017	9.0	0.071
o-Xylene	2.2	0.017	3.6	0.028
1,1-Dichloroethane	2.0	0.0097	Not Detected	Not Detected

Temperature = 69.8F , duration time = 16031 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-19THWASH-020112

Lab ID#: 1202261-02A

VOC BY PASSIVE SAMPLER

File Name:	**6021509**	**Date of Extraction: NA**	**Date of Collection: 2/8/12 4:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 01:23 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0064	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.16	120	0.84
Methylene Chloride	35	0.25	97	0.70
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.13	310	2.3
2-Butanone (Methyl Ethyl Ketone)	59	0.37	93	0.58
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.019	3.4	0.027
1,1,1-Trichloroethane	2.7	0.020	3.1	0.023
Cyclohexane	17	0.11	110	0.75
Carbon Tetrachloride	3.1	0.023	10	0.076
Benzene	16	0.10	230	1.5
1,2-Dichloroethane	2.0	0.015	6.6	0.049
Heptane	20	0.15	140	1.0
Trichloroethene	2.7	0.019	20	0.14
Toluene	4.0	0.029	660	4.8
Tetrachloroethene	4.0	0.032	19	0.15
Ethyl Benzene	2.2	0.018	110	0.86
m,p-Xylene	2.2	0.018	360	3.0
o-Xylene	2.2	0.019	140	1.2
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 10500 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-19THWASH-020112 Blank

Lab ID#: 1202261-02B

VOC BY PASSIVE SAMPLER

File Name:	**6021508**	**Date of Extraction: NA**	**Date of Collection: 2/8/12 4:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 12:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0064	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.017	Not Detected	Not Detected
Acetone	24	0.16	67	0.46
Methylene Chloride	35	0.25	240	1.7
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Hexane	18	0.13	38	0.28
2-Butanone (Methyl Ethyl Ketone)	59	0.37	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Chloroform	2.4	0.019	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.020	Not Detected	Not Detected
Cyclohexane	17	0.11	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.023	Not Detected	Not Detected
Benzene	16	0.10	140	0.93
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.15	Not Detected	Not Detected
Trichloroethene	2.7	0.019	Not Detected	Not Detected
Toluene	4.0	0.029	20	0.14
Tetrachloroethene	4.0	0.032	Not Detected	Not Detected
Ethyl Benzene	2.2	0.018	6.6	0.054
m,p-Xylene	2.2	0.018	14	0.12
o-Xylene	2.2	0.019	4.0	0.035
1,1-Dichloroethane	2.0	0.017	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 42.8F , duration time = 10500 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-MCAREC-OF-020212

Lab ID#: 1202261-03A

VOC BY PASSIVE SAMPLER

File Name:	**6021511**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 02:28 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	690 E	5.5 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	310	3.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	160	2.6
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	16	0.16
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	86	1.1
Carbon Tetrachloride	3.1	0.030	7.1	0.069
Benzene	16	0.15	230	2.1
1,2-Dichloroethane	2.0	0.017	7.3	0.063
Heptane	20	0.22	110	1.2
Trichloroethene	2.7	0.024	10	0.090
Toluene	4.0	0.045	570	6.5
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	86	0.97
m,p-Xylene	2.2	0.027	230	2.8
o-Xylene	2.2	0.027	86	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10089 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-MCAREC-OF-020212 Blank

Lab ID#: 1202261-03B

VOC BY PASSIVE SAMPLER

File Name:	**6021510**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 01:55 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	32	0.26
Methylene Chloride	35	0.34	54	0.53
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	110	1.0
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	24	0.27
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.6	0.085
m,p-Xylene	2.2	0.027	17	0.21
o-Xylene	2.2	0.027	5.9	0.074
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10089 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-MCAREC-LNG-020212

Lab ID#: 1202261-04A

VOC BY PASSIVE SAMPLER

File Name:	**6021513**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:16:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 03:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	670 E	5.4 E
Methylene Chloride	35	0.34	50	0.49
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	200	2.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	340	5.5
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	7.5	0.075
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	67	0.88
Carbon Tetrachloride	3.1	0.030	3.1	0.030
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	5.8	0.050
Heptane	20	0.22	98	1.1
Trichloroethene	2.7	0.024	9.5	0.084
Toluene	4.0	0.045	440	5.0
Tetrachloroethene	4.0	0.040	30	0.30
Ethyl Benzene	2.2	0.025	77	0.86
m,p-Xylene	2.2	0.027	240	3.0
o-Xylene	2.2	0.027	98	1.2
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10090 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-MCAREC-LNG-020212 Blank

Lab ID#: 1202261-04B

VOC BY PASSIVE SAMPLER

File Name:	**6021512**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:16:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 03:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	47	0.38
Methylene Chloride	35	0.34	500	4.9
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	28	0.29
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	17	0.19
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.2	0.058
m,p-Xylene	2.2	0.027	17	0.21
o-Xylene	2.2	0.027	3.8	0.047
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10090 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-MCAREC-CR-020212

Lab ID#: 1202261-05A

VOC BY PASSIVE SAMPLER

File Name:	**6021515**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:22:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 04:41 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1000 E	8.4 E
Methylene Chloride	35	0.34	41	0.40
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	210	2.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	470	7.6
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	22	0.22
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	67	0.88
Carbon Tetrachloride	3.1	0.030	5.3	0.051
Benzene	16	0.15	270	2.5
1,2-Dichloroethane	2.0	0.017	7.5	0.064
Heptane	20	0.22	110	1.1
Trichloroethene	2.7	0.024	11	0.095
Toluene	4.0	0.045	460	5.2
Tetrachloroethene	4.0	0.040	17	0.17
Ethyl Benzene	2.2	0.025	74	0.82
m,p-Xylene	2.2	0.027	220	2.7
o-Xylene	2.2	0.027	89	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10091 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-MCAREC-CR-020212 Blank

Lab ID#: 1202261-05B

VOC BY PASSIVE SAMPLER

File Name:	**6021514**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:22:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 04:08 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	51	0.41
Methylene Chloride	35	0.34	470	4.6
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	30	0.31
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	170	1.6
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.045	20	0.23
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.2	0.070
m,p-Xylene	2.2	0.027	8.0	0.10
o-Xylene	2.2	0.027	3.7	0.046
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10091 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-MCAREC-020212

Lab ID#: 1202261-06A

VOC BY PASSIVE SAMPLER

File Name:	**6021517**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:27:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 05:47 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	77	0.55
Methylene Chloride	35	0.26	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	280	2.2
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	64	0.45
Carbon Tetrachloride	3.1	0.024	5.2	0.040
Benzene	16	0.11	190	1.3
1,2-Dichloroethane	2.0	0.015	4.7	0.036
Heptane	20	0.16	83	0.66
Trichloroethene	2.7	0.020	4.7	0.035
Toluene	4.0	0.030	310	2.4
Tetrachloroethene	4.0	0.034	13	0.11
Ethyl Benzene	2.2	0.019	48	0.41
m,p-Xylene	2.2	0.019	160	1.4
o-Xylene	2.2	0.020	63	0.58
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10087 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-MCAREC-020212 Blank

Lab ID#: 1202261-06B

VOC BY PASSIVE SAMPLER

File Name:	**6021516**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:27:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 05:15 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0067	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	27	0.19
Methylene Chloride	35	0.26	49	0.37
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	21	0.16
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	73	0.50
1,2-Dichloroethane	2.0	0.015	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	19	0.14
Tetrachloroethene	4.0	0.034	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	5.5	0.047
m,p-Xylene	2.2	0.019	15	0.13
o-Xylene	2.2	0.020	4.3	0.040
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10087 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-BSMT-020212

Lab ID#: 1202261-07A

VOC BY PASSIVE SAMPLER

File Name:	**6021519**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:36:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 06:54 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	710 E	5.7 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	390	4.2
2-Butanone (Methyl Ethyl Ketone)	59	0.95	150	2.5
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	12	0.12
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	75	0.98
Carbon Tetrachloride	3.1	0.030	3.9	0.038
Benzene	16	0.15	260	2.5
1,2-Dichloroethane	2.0	0.017	9.1	0.078
Heptane	20	0.22	94	1.0
Trichloroethene	2.7	0.024	16	0.14
Toluene	4.0	0.046	830 E	9.5 E
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	83	0.94
m,p-Xylene	2.2	0.028	230	2.9
o-Xylene	2.2	0.027	89	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10075 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-BSMT-020212 Blank

Lab ID#: 1202261-07B

VOC BY PASSIVE SAMPLER

File Name:	**6021518**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:36:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 06:21 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	Not Detected	Not Detected
Methylene Chloride	35	0.34	59	0.58
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.1
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	22	0.24
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.1	0.068
m,p-Xylene	2.2	0.028	18	0.23
o-Xylene	2.2	0.027	4.6	0.057
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10075 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-104-020212

Lab ID#: 1202261-08A

VOC BY PASSIVE SAMPLER

File Name:	**6021521**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:42:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 07:59 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	1200 E	10 E
Methylene Chloride	35	0.34	49	0.48
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	270	2.8
2-Butanone (Methyl Ethyl Ketone)	59	0.95	230	3.7
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	13	0.13
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	78	1.0
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	280	2.7
1,2-Dichloroethane	2.0	0.017	7.7	0.066
Heptane	20	0.22	93	1.0
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	810 E	9.2 E
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	84	0.94
m,p-Xylene	2.2	0.028	240	2.9
o-Xylene	2.2	0.027	100	1.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-104-020212 Blank

Lab ID#: 1202261-08B

VOC BY PASSIVE SAMPLER

File Name:	**6021520**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:42:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 07:26 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	37	0.30
Methylene Chloride	35	0.34	490	4.8
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	41	0.44
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.1
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	15	0.17
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	4.8	0.054
m,p-Xylene	2.2	0.028	7.1	0.089
o-Xylene	2.2	0.027	3.1	0.039
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-108-020212

Lab ID#: 1202261-09A

VOC BY PASSIVE SAMPLER

File Name:	**6021523**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:49:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 09:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	690 E	5.6 E
Methylene Chloride	35	0.34	60	0.59
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	240	2.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	250	4.0
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	17	0.17
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	63	0.83
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	6.6	0.057
Heptane	20	0.22	82	0.88
Trichloroethene	2.7	0.024	13	0.12
Toluene	4.0	0.046	720	8.1
Tetrachloroethene	4.0	0.040	11	0.12
Ethyl Benzene	2.2	0.025	73	0.82
m,p-Xylene	2.2	0.028	200	2.6
o-Xylene	2.2	0.027	90	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10077 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-108-020212 Blank

Lab ID#: 1202261-09B

VOC BY PASSIVE SAMPLER

File Name:	**6021522**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:49:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 08:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	52	0.41
Methylene Chloride	35	0.34	470	4.6
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	40	0.42
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	16	0.18
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	4.3	0.048
m,p-Xylene	2.2	0.028	8.1	0.10
o-Xylene	2.2	0.027	2.7	0.034
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10077 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-113-020212

Lab ID#: 1202261-10A

VOC BY PASSIVE SAMPLER

File Name:	**6021525**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:53:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 10:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	590 E	4.8 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	560	5.9
2-Butanone (Methyl Ethyl Ketone)	59	0.95	140	2.3
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	13	0.12
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	72	0.94
Carbon Tetrachloride	3.1	0.030	4.1	0.040
Benzene	16	0.15	230	2.2
1,2-Dichloroethane	2.0	0.017	9.0	0.077
Heptane	20	0.22	91	0.98
Trichloroethene	2.7	0.024	15	0.13
Toluene	4.0	0.046	790 E	9.0 E
Tetrachloroethene	4.0	0.040	12	0.12
Ethyl Benzene	2.2	0.025	78	0.87
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.027	91	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10078 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-VCHRISTI-113-020212 Blank

Lab ID#: 1202261-10B

VOC BY PASSIVE SAMPLER

File Name:	**6021524**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:53:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 09:38 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	27	0.21
Methylene Chloride	35	0.34	52	0.52
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	19	0.20
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.2
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	18	0.20
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.0	0.056
m,p-Xylene	2.2	0.028	17	0.21
o-Xylene	2.2	0.027	4.0	0.050
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10078 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-VCHRISTI-020212

Lab ID#: 1202261-11A

VOC BY PASSIVE SAMPLER

File Name:	**6021527**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:59:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 11:18 PM**

Compound	**Rpt. Limit (ng)**	**Rpt. Limit (ug/m3)**	**Amount (ng)**	**Amount (ug/m3)**
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	120	0.90
Methylene Chloride	35	0.26	60	0.45
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	260	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.38	74	0.48
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	52	0.37
Carbon Tetrachloride	3.1	0.024	8.3	0.065
Benzene	16	0.11	180	1.2
1,2-Dichloroethane	2.0	0.016	5.1	0.040
Heptane	20	0.16	62	0.49
Trichloroethene	2.7	0.020	13	0.095
Toluene	4.0	0.030	810 E	6.1 E
Tetrachloroethene	4.0	0.034	11	0.096
Ethyl Benzene	2.2	0.019	50	0.43
m,p-Xylene	2.2	0.019	170	1.5
o-Xylene	2.2	0.020	78	0.72
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
E = Exceeds instrument calibration range.

Temperature = 41.0F , duration time = 10077 minutes.
Container Type: Ultra III (TD)

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-VCHRISTI-020212 Blank

Lab ID#: 1202261-11B

VOC BY PASSIVE SAMPLER

File Name:	**6021526**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:59:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 10:44 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	35	0.25
Methylene Chloride	35	0.26	530	4.0
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	29	0.22
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	75	0.51
1,2-Dichloroethane	2.0	0.016	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	16	0.12
Tetrachloroethene	4.0	0.034	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	4.3	0.037
m,p-Xylene	2.2	0.019	6.3	0.055
o-Xylene	2.2	0.020	2.6	0.024
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10077 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-VCHRISTIQ-020212

Lab ID#: 1202261-12A

VOC BY PASSIVE SAMPLER

File Name:	**6021529**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:59:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 12:24 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	120	0.88
Methylene Chloride	35	0.26	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	380	3.0
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	50	0.35
Carbon Tetrachloride	3.1	0.024	5.4	0.042
Benzene	16	0.11	200	1.3
1,2-Dichloroethane	2.0	0.016	4.8	0.037
Heptane	20	0.16	57	0.45
Trichloroethene	2.7	0.020	10	0.075
Toluene	4.0	0.030	800 E	6.0 E
Tetrachloroethene	4.0	0.034	11	0.092
Ethyl Benzene	2.2	0.019	53	0.45
m,p-Xylene	2.2	0.019	190	1.7
o-Xylene	2.2	0.020	78	0.72
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
E = Exceeds instrument calibration range.

Temperature = 41.0F , duration time = 10077 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-VCHRISTIQ-020212 Blank

Lab ID#: 1202261-12B

VOC BY PASSIVE SAMPLER

File Name:	**6021528**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 9:59:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 11:51 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	43	0.31
Methylene Chloride	35	0.26	44	0.33
Methyl tert-butyl ether	18	0.14	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	72	0.50
1,2-Dichloroethane	2.0	0.016	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	28	0.21
Tetrachloroethene	4.0	0.034	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	5.3	0.045
m,p-Xylene	2.2	0.019	33	0.29
o-Xylene	2.2	0.020	4.8	0.044
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10077 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVIS104-020212

Lab ID#: 1202261-13A

VOC BY PASSIVE SAMPLER

File Name:	**6021607**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:11:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 12:30 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	4400 E	35 E
Methylene Chloride	35	0.34	40	0.39
Methyl tert-butyl ether	18	0.18	39	0.40
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	150	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	330	5.4
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	25	0.25
1,1,1-Trichloroethane	2.7	0.029	4.1	0.044
Cyclohexane	17	0.22	75	0.98
Carbon Tetrachloride	3.1	0.030	4.1	0.040
Benzene	16	0.15	170	1.6
1,2-Dichloroethane	2.0	0.017	7.9	0.068
Heptane	20	0.22	290	3.1
Trichloroethene	2.7	0.024	12	0.11
Toluene	4.0	0.046	430	4.9
Tetrachloroethene	4.0	0.040	330	3.4
Ethyl Benzene	2.2	0.025	90	1.0
m,p-Xylene	2.2	0.028	250	3.1
o-Xylene	2.2	0.027	86	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVIS104-020212 Blank

Lab ID#: 1202261-13B

VOC BY PASSIVE SAMPLER

File Name:	**6021530**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:11:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 12:57 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	59	0.48
Methylene Chloride	35	0.34	540	5.4
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	41	0.43
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	140	1.3
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	25	0.28
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.0	0.078
m,p-Xylene	2.2	0.028	13	0.16
o-Xylene	2.2	0.027	4.4	0.055
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10076 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVISGYM-020212

Lab ID#: 1202261-14A

VOC BY PASSIVE SAMPLER

File Name:	**6021533**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:14:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 02:27 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	6200 E	50 E
Methylene Chloride	35	0.34	80	0.78
Methyl tert-butyl ether	18	0.18	68	0.70
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	140	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	340	5.5
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	30	0.30
1,1,1-Trichloroethane	2.7	0.029	3.1	0.033
Cyclohexane	17	0.22	66	0.86
Carbon Tetrachloride	3.1	0.030	3.3	0.032
Benzene	16	0.15	260	2.4
1,2-Dichloroethane	2.0	0.017	7.2	0.062
Heptane	20	0.22	270	2.9
Trichloroethene	2.7	0.024	12	0.10
Toluene	4.0	0.046	400	4.5
Tetrachloroethene	4.0	0.040	220	2.3
Ethyl Benzene	2.2	0.025	90	1.0
m,p-Xylene	2.2	0.028	250	3.2
o-Xylene	2.2	0.027	80	1.0
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10074 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVISGYM-020212 Blank

Lab ID#: 1202261-14B

VOC BY PASSIVE SAMPLER

File Name:	**6021532**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:14:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 01:54 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	60	0.48
Methylene Chloride	35	0.34	520	5.1
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	42	0.45
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.6
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	24	0.27
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.5	0.084
m,p-Xylene	2.2	0.028	20	0.25
o-Xylene	2.2	0.027	4.4	0.055
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10074 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVISNUR-020212

Lab ID#: 1202261-15A

VOC BY PASSIVE SAMPLER

File Name:	**6021535**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:19:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 03:32 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	8300 E	66 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	330	3.5
2-Butanone (Methyl Ethyl Ketone)	59	0.95	220	3.6
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	16	0.16
1,1,1-Trichloroethane	2.7	0.029	4.9	0.053
Cyclohexane	17	0.22	84	1.1
Carbon Tetrachloride	3.1	0.030	4.0	0.039
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	9.9	0.085
Heptane	20	0.22	330	3.5
Trichloroethene	2.7	0.024	14	0.12
Toluene	4.0	0.046	500	5.6
Tetrachloroethene	4.0	0.040	99	1.0
Ethyl Benzene	2.2	0.025	78	0.87
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.027	84	1.0
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10075 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVISNUR-020212 Blank

Lab ID#: 1202261-15B

VOC BY PASSIVE SAMPLER

File Name:	**6021534**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:19:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 03:00 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	56	0.45
Methylene Chloride	35	0.34	52	0.51
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	120	1.1
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	23	0.26
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	7.6	0.085
m,p-Xylene	2.2	0.028	22	0.28
o-Xylene	2.2	0.027	5.9	0.074
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10075 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVISNURQ-020212

Lab ID#: 1202261-16A

VOC BY PASSIVE SAMPLER

File Name:	**6021537**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:19:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 04:38 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	8800 E	70 E
Methylene Chloride	35	0.34	42	0.42
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	160	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	380	6.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	16	0.16
1,1,1-Trichloroethane	2.7	0.029	3.3	0.036
Cyclohexane	17	0.22	83	1.1
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	220	2.1
1,2-Dichloroethane	2.0	0.017	8.6	0.074
Heptane	20	0.22	330	3.5
Trichloroethene	2.7	0.024	13	0.11
Toluene	4.0	0.046	490	5.6
Tetrachloroethene	4.0	0.040	92	0.94
Ethyl Benzene	2.2	0.025	81	0.91
m,p-Xylene	2.2	0.028	240	3.0
o-Xylene	2.2	0.027	89	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10075 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-ENVISNURQ-020212 Blank

Lab ID#: 1202261-16B

VOC BY PASSIVE SAMPLER

File Name:	**6021536**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:19:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 04:05 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	70	0.56
Methylene Chloride	35	0.34	470	4.6
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	41	0.43
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	100	0.97
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	15	0.17
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	4.6	0.052
m,p-Xylene	2.2	0.028	6.6	0.082
o-Xylene	2.2	0.027	2.8	0.035
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10075 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-UMC109C-020212

Lab ID#: 1202261-17A

VOC BY PASSIVE SAMPLER

File Name:	**6021539**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:32:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 05:44 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	680 E	5.5 E
Methylene Chloride	35	0.34	48	0.48
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	150	1.6
2-Butanone (Methyl Ethyl Ketone)	59	0.95	440	7.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	31	0.31
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	42	0.55
Carbon Tetrachloride	3.1	0.030	3.2	0.031
Benzene	16	0.15	270	2.6
1,2-Dichloroethane	2.0	0.017	33	0.29
Heptane	20	0.22	100	1.1
Trichloroethene	2.7	0.024	51	0.45
Toluene	4.0	0.046	600	6.8
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	71	0.79
m,p-Xylene	2.2	0.028	220	2.8
o-Xylene	2.2	0.027	100	1.3
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10068 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-UMC109C-020212 Blank

Lab ID#: 1202261-17B

VOC BY PASSIVE SAMPLER

File Name:	**6021538**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:32:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 05:11 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	57	0.46
Methylene Chloride	35	0.34	450	4.4
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	39	0.41
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	160	1.5
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	17	0.20
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	5.5	0.062
m,p-Xylene	2.2	0.028	14	0.18
o-Xylene	2.2	0.027	3.2	0.040
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10068 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-UMCNUR-020212

Lab ID#: 1202261-18A

VOC BY PASSIVE SAMPLER

File Name:	**6021541**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:31:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 06:50 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	540 E	4.3 E
Methylene Chloride	35	0.34	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	390	4.1
2-Butanone (Methyl Ethyl Ketone)	59	0.95	320	5.2
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	19	0.19
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	51	0.66
Carbon Tetrachloride	3.1	0.030	3.3	0.032
Benzene	16	0.15	290	2.7
1,2-Dichloroethane	2.0	0.017	12	0.099
Heptane	20	0.22	180	1.9
Trichloroethene	2.7	0.024	48	0.42
Toluene	4.0	0.046	660	7.5
Tetrachloroethene	4.0	0.040	15	0.15
Ethyl Benzene	2.2	0.025	65	0.73
m,p-Xylene	2.2	0.028	220	2.7
o-Xylene	2.2	0.028	86	1.1
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

E = Exceeds instrument calibration range.

Temperature = 69.8F , duration time = 10062 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IAP-NIC-UMCNUR-020212 Blank

Lab ID#: 1202261-18B

VOC BY PASSIVE SAMPLER

File Name:	**6021540**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:31:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 06:17 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0076	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.021	Not Detected	Not Detected
Acetone	24	0.19	29	0.23
Methylene Chloride	35	0.34	65	0.64
Methyl tert-butyl ether	18	0.18	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.020	Not Detected	Not Detected
Hexane	18	0.19	26	0.27
2-Butanone (Methyl Ethyl Ketone)	59	0.95	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Chloroform	2.4	0.024	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.029	Not Detected	Not Detected
Cyclohexane	17	0.22	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.030	Not Detected	Not Detected
Benzene	16	0.15	150	1.4
1,2-Dichloroethane	2.0	0.017	Not Detected	Not Detected
Heptane	20	0.22	Not Detected	Not Detected
Trichloroethene	2.7	0.024	Not Detected	Not Detected
Toluene	4.0	0.046	18	0.20
Tetrachloroethene	4.0	0.040	Not Detected	Not Detected
Ethyl Benzene	2.2	0.025	6.0	0.067
m,p-Xylene	2.2	0.028	12	0.14
o-Xylene	2.2	0.028	4.5	0.056
1,1-Dichloroethane	2.0	0.015	Not Detected	Not Detected

Temperature = 69.8F , duration time = 10062 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-UMC-020212

Lab ID#: 1202261-19A

VOC BY PASSIVE SAMPLER

File Name:	**6021543**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 07:56 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	99	0.72
Methylene Chloride	35	0.26	150	1.1
Methyl tert-butyl ether	18	0.15	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	140	1.1
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	40	0.28
Carbon Tetrachloride	3.1	0.024	5.1	0.040
Benzene	16	0.11	170	1.2
1,2-Dichloroethane	2.0	0.016	3.6	0.028
Heptane	20	0.16	52	0.42
Trichloroethene	2.7	0.020	8.0	0.059
Toluene	4.0	0.030	300	2.3
Tetrachloroethene	4.0	0.034	12	0.10
Ethyl Benzene	2.2	0.019	47	0.40
m,p-Xylene	2.2	0.019	150	1.3
o-Xylene	2.2	0.020	74	0.69
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10050 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OAP-NIC-UMC-020212 Blank

Lab ID#: 1202261-19B

VOC BY PASSIVE SAMPLER

File Name:	**6021542**	**Date of Extraction: NA**	**Date of Collection: 2/9/12 10:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 07:23 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0068	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.018	Not Detected	Not Detected
Acetone	24	0.17	40	0.29
Methylene Chloride	35	0.26	450	3.4
Methyl tert-butyl ether	18	0.15	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Hexane	18	0.14	40	0.31
2-Butanone (Methyl Ethyl Ketone)	59	0.38	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.015	Not Detected	Not Detected
Chloroform	2.4	0.020	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.021	Not Detected	Not Detected
Cyclohexane	17	0.12	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.024	Not Detected	Not Detected
Benzene	16	0.11	92	0.64
1,2-Dichloroethane	2.0	0.016	Not Detected	Not Detected
Heptane	20	0.16	Not Detected	Not Detected
Trichloroethene	2.7	0.020	Not Detected	Not Detected
Toluene	4.0	0.030	20	0.16
Tetrachloroethene	4.0	0.034	Not Detected	Not Detected
Ethyl Benzene	2.2	0.019	5.3	0.045
m,p-Xylene	2.2	0.019	6.7	0.058
o-Xylene	2.2	0.020	3.3	0.031
1,1-Dichloroethane	2.0	0.018	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 41.0F , duration time = 10050 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202261-20A

VOC BY PASSIVE SAMPLER

File Name:	**6021505**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 10:46 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0048	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Acetone	24	0.12	Not Detected	Not Detected
Methylene Chloride	35	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.012	Not Detected	Not Detected
Hexane	18	0.12	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.60	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.018	Not Detected	Not Detected
Cyclohexane	17	0.14	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.019	Not Detected	Not Detected
Benzene	16	0.095	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.011	Not Detected	Not Detected
Heptane	20	0.14	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.029	Not Detected	Not Detected
Tetrachloroethene	4.0	0.025	Not Detected	Not Detected
Ethyl Benzene	2.2	0.016	Not Detected	Not Detected
m,p-Xylene	2.2	0.017	Not Detected	Not Detected
o-Xylene	2.2	0.017	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.0097	Not Detected	Not Detected

Temperature = 69.8F , duration time = 16031 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1202261-20B

VOC BY PASSIVE SAMPLER

File Name:	**6021606**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 11:39 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0048	Not Detected	Not Detected
1,1-Dichloroethene	2.0	0.013	Not Detected	Not Detected
Acetone	24	0.12	Not Detected	Not Detected
Methylene Chloride	35	0.22	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.12	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.012	Not Detected	Not Detected
Hexane	18	0.12	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.60	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.018	Not Detected	Not Detected
Cyclohexane	17	0.14	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.019	Not Detected	Not Detected
Benzene	16	0.095	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.011	Not Detected	Not Detected
Heptane	20	0.14	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.029	Not Detected	Not Detected
Tetrachloroethene	4.0	0.025	Not Detected	Not Detected
Ethyl Benzene	2.2	0.016	Not Detected	Not Detected
m,p-Xylene	2.2	0.017	Not Detected	Not Detected
o-Xylene	2.2	0.017	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.0097	Not Detected	Not Detected

Temperature = 69.8F , duration time = 16031 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202261-21A

VOC BY PASSIVE SAMPLER

File Name:	**6021502**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 09:15 AM**

Compound	**%Recovery**
Vinyl Chloride	134 Q
1,1-Dichloroethene	102
Acetone	101
Methylene Chloride	102
Methyl tert-butyl ether	124
trans-1,2-Dichloroethene	104
Hexane	115
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	107
Chloroform	96
1,1,1-Trichloroethane	102
Cyclohexane	106
Carbon Tetrachloride	110
Benzene	95
1,2-Dichloroethane	97
Heptane	106
Trichloroethene	100
Toluene	102
Tetrachloroethene	107
Ethyl Benzene	109
m,p-Xylene	104
o-Xylene	112
1,1-Dichloroethane	111

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV High Split

Lab ID#: 1202261-21B

VOC BY PASSIVE SAMPLER

File Name:	**6021602**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**4.00**		**Date of Analysis: 2/16/12 09:41 AM**

Compound	**%Recovery**
Vinyl Chloride	127
1,1-Dichloroethene	100
Acetone	92
Methylene Chloride	102
Methyl tert-butyl ether	125
trans-1,2-Dichloroethene	103
Hexane	115
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	109
Chloroform	104
1,1,1-Trichloroethane	106
Cyclohexane	113
Carbon Tetrachloride	123
Benzene	95
1,2-Dichloroethane	102
Heptane	111
Trichloroethene	94
Toluene	95
Tetrachloroethene	100
Ethyl Benzene	103
m,p-Xylene	98
o-Xylene	106
1,1-Dichloroethane	114

Temperature = 32.0F , duration time = 0 minutes.
Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1202261-21C

VOC BY PASSIVE SAMPLER

File Name:	**6021603**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 10:09 AM**

Compound	**%Recovery**
Vinyl Chloride	128
1,1-Dichloroethene	100
Acetone	101
Methylene Chloride	110
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	101
Hexane	112
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	105
Chloroform	98
1,1,1-Trichloroethane	98
Cyclohexane	108
Carbon Tetrachloride	114
Benzene	95
1,2-Dichloroethane	96
Heptane	106
Trichloroethene	97
Toluene	97
Tetrachloroethene	100
Ethyl Benzene	103
m,p-Xylene	100
o-Xylene	109
1,1-Dichloroethane	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1202261-22A
VOC BY PASSIVE SAMPLER

File Name:	**6021503**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 09:48 AM**

Compound	**%Recovery**
Vinyl Chloride	128
1,1-Dichloroethene	105
Acetone	93
Methylene Chloride	98
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	109
Hexane	110
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	99
Chloroform	96
1,1,1-Trichloroethane	97
Cyclohexane	106
Carbon Tetrachloride	108
Benzene	92
1,2-Dichloroethane	94
Heptane	100
Trichloroethene	94
Toluene	88
Tetrachloroethene	92
Ethyl Benzene	87
m,p-Xylene	85
o-Xylene	88
1,1-Dichloroethane	104

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1202261-22AA
VOC BY PASSIVE SAMPLER

File Name:	**6021504**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/12 10:16 AM**

Compound	**%Recovery**
Vinyl Chloride	132 Q
1,1-Dichloroethene	108
Acetone	114
Methylene Chloride	101
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	110
Hexane	110
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	101
Chloroform	92
1,1,1-Trichloroethane	96
Cyclohexane	107
Carbon Tetrachloride	98
Benzene	98
1,2-Dichloroethane	92
Heptane	102
Trichloroethene	94
Toluene	91
Tetrachloroethene	92
Ethyl Benzene	87
m,p-Xylene	85
o-Xylene	89
1,1-Dichloroethane	106

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1202261-22B
VOC BY PASSIVE SAMPLER

File Name:	**6021604**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 10:42 AM**

Compound	**%Recovery**
Vinyl Chloride	128
1,1-Dichloroethene	104
Acetone	102
Methylene Chloride	103
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	109
Hexane	109
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	100
Chloroform	93
1,1,1-Trichloroethane	95
Cyclohexane	105
Carbon Tetrachloride	103
Benzene	91
1,2-Dichloroethane	89
Heptane	100
Trichloroethene	90
Toluene	86
Tetrachloroethene	88
Ethyl Benzene	85
m,p-Xylene	82
o-Xylene	88
1,1-Dichloroethane	105

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1202261-22BB
VOC BY PASSIVE SAMPLER

File Name:	**6021605**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/16/12 11:10 AM**

Compound	**%Recovery**
Vinyl Chloride	131 Q
1,1-Dichloroethene	108
Acetone	124
Methylene Chloride	108
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	109
Hexane	110
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	102
Chloroform	90
1,1,1-Trichloroethane	93
Cyclohexane	105
Carbon Tetrachloride	94
Benzene	95
1,2-Dichloroethane	89
Heptane	101
Trichloroethene	92
Toluene	89
Tetrachloroethene	89
Ethyl Benzene	86
m,p-Xylene	84
o-Xylene	88
1,1-Dichloroethane	106

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	100	70-130

PASSIVE SAMPLE COLLECTION

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.

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

Project Manager Kevin Rood (Invoice attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company CDM Smith Email martich@cdmsmith.com williamsmk@cdmsmith.com
Address 345 Riverview, Ste 520 City Wichita State KS Zip 67203
Phone 316-660-6700 Fax 316-264-3025

Project Info:
P.O. #
Project # 2395-88707
Project Name NK Site-Lake VI

Turn Around Time: ☒ Normal ☐ Rush specify

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	IAP-NIC-1134/INDI-012812		01/28/12	13:20	02/08/12	16:31	TO-17	☒	☐	☐	☐
02A	OAP-NIC-PATHLOBSH-020112		02/01/12	09:33	02/08/12	16:33	TO-17	☐	☒	☐	☐
03A	IAP-NIC-MCAREC-DF-020212		02/02/12	09:01	02/09/12	09:10	TO-17	☒	☐	☐	☐
04A	IAP-NIC-MCAREC-LNG-020212		02/02/12	09:06	02/09/12	09:16	TO-17	☒	☐	☐	☐
05A	IAP-NIC-MCAREC-CE-020212		02/02/12	09:11	02/09/12	09:22	TO-17	☒	☐	☐	☐
06A	OAP-NIC-MCAREC-020212		02/02/12	09:20	02/09/12	09:27	TO-17	☐	☒	☐	☐
07A	IAP-NIC-VCHRISTI-BSMT-020212		02/02/12	09:41	02/09/12	09:36	TO-17	☒	☐	☐	☐
08A	IAP-NIC-VCHRISTI-104-020212		02/02/12	09:46	02/09/12	09:42	TO-17	☒	☐	☐	☐
09A	IAP-NIC-VCHRISTI-108-020212		02/02/12	09:52	02/09/12	09:49	TO-17	☒	☐	☐	☐
10A	IAP-NIC-VCHRISTI-113-020212		02/02/12	09:55	02/09/12	09:53	TO-17	☒	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/9/12 12:21	B. Schutteken ATL	2/10/12 0850
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No None	1202261

PASSIVE SAMPLE COLLECTION

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.

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

Project Manager: Kevin Rood (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: ADM Smith Email: martich.bj@admsmith.com williams.mk@admsmith.com
Address: 345 Riverview, Ste 520 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-264-3025

Project Info:
P.O. #:
Project #: 2395-88707
Project Name: NK Site-wide VI

Turn Around Time: ☒ Normal ☐ Rush _____ specify

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
11A	OAP-NIC-VCHRISTI-020212		02/02/12	10:02	02/09/12	09:59	TO-17	☐	☒	☐	☐
12A	OAP-NIC-VCHRISTIQ-020212		02/02/12	10:02	02/09/12	09:59	TO-17	☐	☒	☐	☐
13A	IAP-NIC-ENVIS 104-020212		02/02/12	10:15	02/09/12	10:11	TO-17	☒	☐	☐	☐
14A	IAP-NIC-ENVIS@YM-020212		02/02/12	10:20	02/09/12	10:14	TO-17	☒	☐	☐	☐
15A	IAP-NIC-ENVISNUR-020212		02/02/12	10:24	02/09/12	10:19	TO-17	☒	☐	☐	☐
16A	IAP-NIC-ENVISNURQ-020212		02/02/12	10:24	02/09/12	10:19	TO-17	☒	☐	☐	☐
17A	IAP-NIC-LUMC 109C-020212		02/02/12	10:44	02/09/12	10:32	TO-17	☒	☐	☐	☐
18A	IAP-NIC-LUMC NUR-020212		02/02/12	10:49	02/09/12	10:31	TO-17	☒	☐	☐	☐
19A	OAP-NIC-LUMC-020212		02/02/12	11:25	02/09/12	10:35	TO-17	☐	☒	☐	☐
								☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	2/9/12 12:21	B. Whitaker ATL	2/10/12 0850
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No None	1202261

Appendix B2
Laboratory Analytical Data – NIC Site-wide Vapor Intrusion, Phase 3

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3/25/2012
Ms. Monica Williams
CDM Smith Inc.
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-wide VI
Project #: 2395-88707
Workorder #: 1203248

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 3/12/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203248

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	03/12/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/25/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAS-NIC-1402ARN-CWL-030812	Modified TO-15	4.5 "Hg	5 psi
02A	IAS-NIC-1402ARN-LVR-030812	Modified TO-15	4.5 "Hg	5 psi
03A	IAS-NIC-1035-CLEV-BSMT-030812	Modified TO-15	8.5 "Hg	5 psi
04A	IAS-NIC-1035-CLEV-LVR-030812	Modified TO-15	3.0 "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: Linda J. Freeman

Laboratory Director

DATE: 03/25/12

Certfication 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
CDM Smith Inc.
Workorder# 1203248

Four 6 Liter Summa Canister (100% Certified) samples were received on March 12, 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.

Requirement	***TO-15***	***ATL Modifications***
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

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

Client Sample ID: IAS-NIC-1402ARN-CWL-030812

Lab ID#: 1203248-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.50	0.78	2.4
Chloromethane	0.16	0.40	0.33	0.82
Freon 11	0.16	0.22	0.89	1.2
Ethanol	0.79	4.7	1.5	8.9
Acetone	0.79	2.0	1.9	4.9
Hexane	0.16	0.73	0.56	2.6
Cyclohexane	0.16	0.24	0.54	0.84
2,2,4-Trimethylpentane	0.79	0.79	3.7	3.7
Benzene	0.16	0.49	0.50	1.6
Heptane	0.16	0.41	0.65	1.7
Toluene	0.16	1.2	0.60	4.4
Ethyl Benzene	0.16	0.23	0.69	1.0
m,p-Xylene	0.16	0.75	0.69	3.3
o-Xylene	0.16	0.29	0.69	1.2
4-Ethyltoluene	0.16	0.18	0.78	0.91
1,2,4-Trimethylbenzene	0.16	0.21	0.78	1.0

Client Sample ID: IAS-NIC-1402ARN-LVR-030812

Lab ID#: 1203248-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.51	0.78	2.5
Chloromethane	0.16	0.59	0.33	1.2
Freon 11	0.16	0.22	0.89	1.2
Ethanol	0.79	240 E	1.5	460 E
Acetone	0.79	10	1.9	24
2-Propanol	0.79	3.4	1.9	8.2
Hexane	0.16	1.1	0.56	3.9
Cyclohexane	0.16	0.34	0.54	1.2
2,2,4-Trimethylpentane	0.79	0.91	3.7	4.3
Benzene	0.16	0.55	0.50	1.8
1,2-Dichloroethane	0.16	0.30	0.64	1.2
Heptane	0.16	0.52	0.65	2.1

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

Client Sample ID: IAS-NIC-1402ARN-LVR-030812

Lab ID#: 1203248-02A

Toluene	0.16	1.4	0.60	5.4
Ethyl Benzene	0.16	0.22	0.69	0.96
m,p-Xylene	0.16	0.81	0.69	3.5
o-Xylene	0.16	0.27	0.69	1.2
4-Ethyltoluene	0.16	0.17	0.78	0.82
1,2,4-Trimethylbenzene	0.16	0.17	0.78	0.83

Client Sample ID: IAS-NIC-1035-CLEV-BSMT-030812

Lab ID#: 1203248-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.48	0.92	2.4
Chloromethane	0.19	0.50	0.39	1.0
Freon 11	0.19	0.20	1.0	1.1
Ethanol	0.94	330 E	1.8	620 E
Acetone	0.94	170 E	2.2	410 E
2-Propanol	0.94	3.9	2.3	9.7
Hexane	0.19	0.63	0.66	2.2
Cyclohexane	0.19	0.22	0.64	0.77
Benzene	0.19	0.49	0.60	1.6
Heptane	0.19	0.27	0.77	1.1
Toluene	0.19	2.3	0.70	8.6
Ethyl Benzene	0.19	2.2	0.81	9.5
m,p-Xylene	0.19	9.6	0.81	42
o-Xylene	0.19	4.2	0.81	18
Cumene	0.19	0.28	0.92	1.4
Propylbenzene	0.19	0.84	0.92	4.1
4-Ethyltoluene	0.19	3.5	0.92	17
1,3,5-Trimethylbenzene	0.19	1.2	0.92	5.9
1,2,4-Trimethylbenzene	0.19	3.5	0.92	17

Client Sample ID: IAS-NIC-1035-CLEV-LVR-030812

Lab ID#: 1203248-04A

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

Client Sample ID: IAS-NIC-1035-CLEV-LVR-030812

Lab ID#: 1203248-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.21	0.74	1.0
Chloromethane	0.15	0.28	0.31	0.59
Ethanol	0.74	460 E	1.4	860 E
Acetone	0.74	190 E	1.8	460 E
2-Propanol	0.74	4.4	1.8	11
Hexane	0.15	0.33	0.52	1.2
Cyclohexane	0.15	0.15	0.51	0.51
Benzene	0.15	0.30	0.48	0.98
1,2-Dichloroethane	0.15	0.16	0.60	0.63
Heptane	0.15	0.20	0.61	0.81
Toluene	0.15	1.8	0.56	7.0
Ethyl Benzene	0.15	2.3	0.65	10
m,p-Xylene	0.15	10	0.65	45
o-Xylene	0.15	4.8	0.65	21
Cumene	0.15	0.30	0.73	1.5
Propylbenzene	0.15	0.93	0.73	4.6
4-Ethyltoluene	0.15	4.0	0.73	20
1,3,5-Trimethylbenzene	0.15	1.3	0.73	6.5
1,2,4-Trimethylbenzene	0.15	4.0	0.73	20

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Client Sample ID: IAS-NIC-1402ARN-CWL-030812

Lab ID#: 1203248-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031407**	**Date of Collection:**	**3/8/12 10:32:00 AM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**3/14/12 01:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.50	0.78	2.4
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.40	0.33	0.82
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.16	Not Detected	0.61	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
Freon 11	0.16	0.22	0.89	1.2
Ethanol	0.79	4.7	1.5	8.9
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Acetone	0.79	2.0	1.9	4.9
2-Propanol	0.79	Not Detected	1.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Hexane	0.16	0.73	0.56	2.6
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.3	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Cyclohexane	0.16	0.24	0.54	0.84
Carbon Tetrachloride	0.16	Not Detected	0.99	Not Detected
2,2,4-Trimethylpentane	0.79	0.79	3.7	3.7
Benzene	0.16	0.49	0.50	1.6
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
Heptane	0.16	0.41	0.65	1.7
Trichloroethene	0.16	Not Detected	0.85	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	1.2	0.60	4.4
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.79	Not Detected	3.2	Not Detected

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Client Sample ID: IAS-NIC-1402ARN-CWL-030812

Lab ID#: 1203248-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031407**	**Date of Collection:**	**3/8/12 10:32:00 AM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**3/14/12 01:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Ethyl Benzene	0.16	0.23	0.69	1.0
m,p-Xylene	0.16	0.75	0.69	3.3
o-Xylene	0.16	0.29	0.69	1.2
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.78	Not Detected
4-Ethyltoluene	0.16	0.18	0.78	0.91
1,3,5-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,2,4-Trimethylbenzene	0.16	0.21	0.78	1.0
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: IAS-NIC-1402ARN-LVR-030812

Lab ID#: 1203248-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031408**	**Date of Collection:**	**3/8/12 10:32:00 AM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**3/14/12 01:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.51	0.78	2.5
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.59	0.33	1.2
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.16	Not Detected	0.61	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
Freon 11	0.16	0.22	0.89	1.2
Ethanol	0.79	240 E	1.5	460 E
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Acetone	0.79	10	1.9	24
2-Propanol	0.79	3.4	1.9	8.2
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Hexane	0.16	1.1	0.56	3.9
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.3	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Cyclohexane	0.16	0.34	0.54	1.2
Carbon Tetrachloride	0.16	Not Detected	0.99	Not Detected
2,2,4-Trimethylpentane	0.79	0.91	3.7	4.3
Benzene	0.16	0.55	0.50	1.8
1,2-Dichloroethane	0.16	0.30	0.64	1.2
Heptane	0.16	0.52	0.65	2.1
Trichloroethene	0.16	Not Detected	0.85	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	1.4	0.60	5.4
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.79	Not Detected	3.2	Not Detected

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Client Sample ID: IAS-NIC-1402ARN-LVR-030812

Lab ID#: 1203248-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031408**	**Date of Collection:**	**3/8/12 10:32:00 AM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**3/14/12 01:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Ethyl Benzene	0.16	0.22	0.69	0.96
m,p-Xylene	0.16	0.81	0.69	3.5
o-Xylene	0.16	0.27	0.69	1.2
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.78	Not Detected
4-Ethyltoluene	0.16	0.17	0.78	0.82
1,3,5-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,2,4-Trimethylbenzene	0.16	0.17	0.78	0.83
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: IAS-NIC-1035-CLEV-BSMT-030812

Lab ID#: 1203248-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031409**	**Date of Collection:**	**3/8/12 4:44:00 PM**
Dil. Factor:	**1.87**	**Date of Analysis:**	**3/14/12 02:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.48	0.92	2.4
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.19	0.50	0.39	1.0
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,3-Butadiene	0.19	Not Detected	0.41	Not Detected
Bromomethane	0.19	Not Detected	0.73	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.19	0.20	1.0	1.1
Ethanol	0.94	330 E	1.8	620 E
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Acetone	0.94	170 E	2.2	410 E
2-Propanol	0.94	3.9	2.3	9.7
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
3-Chloropropene	0.94	Not Detected	2.9	Not Detected
Methylene Chloride	0.37	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.67	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Hexane	0.19	0.63	0.66	2.2
1,1-Dichloroethane	0.19	Not Detected	0.76	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
Chloroform	0.19	Not Detected	0.91	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	0.22	0.64	0.77
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Benzene	0.19	0.49	0.60	1.6
1,2-Dichloroethane	0.19	Not Detected	0.76	Not Detected
Heptane	0.19	0.27	0.77	1.1
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.86	Not Detected
1,4-Dioxane	0.19	Not Detected	0.67	Not Detected
Bromodichloromethane	0.19	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.77	Not Detected
Toluene	0.19	2.3	0.70	8.6
trans-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.94	Not Detected	3.8	Not Detected

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Client Sample ID: IAS-NIC-1035-CLEV-BSMT-030812

Lab ID#: 1203248-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031409**	**Date of Collection:**	**3/8/12 4:44:00 PM**
Dil. Factor:	**1.87**	**Date of Analysis:**	**3/14/12 02:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.4	Not Detected
Chlorobenzene	0.19	Not Detected	0.86	Not Detected
Ethyl Benzene	0.19	2.2	0.81	9.5
m,p-Xylene	0.19	9.6	0.81	42
o-Xylene	0.19	4.2	0.81	18
Styrene	0.19	Not Detected	0.80	Not Detected
Bromoform	0.19	Not Detected	1.9	Not Detected
Cumene	0.19	0.28	0.92	1.4
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	0.84	0.92	4.1
4-Ethyltoluene	0.19	3.5	0.92	17
1,3,5-Trimethylbenzene	0.19	1.2	0.92	5.9
1,2,4-Trimethylbenzene	0.19	3.5	0.92	17
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.97	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.94	Not Detected	6.9	Not Detected
Hexachlorobutadiene	0.94	Not Detected	10	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

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

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Client Sample ID: IAS-NIC-1035-CLEV-LVR-030812

Lab ID#: 1203248-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031410**	**Date of Collection:**	**3/8/12 4:57:00 PM**
Dil. Factor:	**1.49**	**Date of Analysis:**	**3/14/12 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.21	0.74	1.0
Freon 114	0.15	Not Detected	1.0	Not Detected
Chloromethane	0.15	0.28	0.31	0.59
Vinyl Chloride	0.15	Not Detected	0.38	Not Detected
1,3-Butadiene	0.15	Not Detected	0.33	Not Detected
Bromomethane	0.15	Not Detected	0.58	Not Detected
Chloroethane	0.74	Not Detected	2.0	Not Detected
Freon 11	0.15	Not Detected	0.84	Not Detected
Ethanol	0.74	460 E	1.4	860 E
Freon 113	0.15	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Acetone	0.74	190 E	1.8	460 E
2-Propanol	0.74	4.4	1.8	11
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
3-Chloropropene	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	0.30	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Hexane	0.15	0.33	0.52	1.2
1,1-Dichloroethane	0.15	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.74	Not Detected	2.2	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
Chloroform	0.15	Not Detected	0.73	Not Detected
1,1,1-Trichloroethane	0.15	Not Detected	0.81	Not Detected
Cyclohexane	0.15	0.15	0.51	0.51
Carbon Tetrachloride	0.15	Not Detected	0.94	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.5	Not Detected
Benzene	0.15	0.30	0.48	0.98
1,2-Dichloroethane	0.15	0.16	0.60	0.63
Heptane	0.15	0.20	0.61	0.81
Trichloroethene	0.15	Not Detected	0.80	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.69	Not Detected
1,4-Dioxane	0.15	Not Detected	0.54	Not Detected
Bromodichloromethane	0.15	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.61	Not Detected
Toluene	0.15	1.8	0.56	7.0
trans-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	0.81	Not Detected
Tetrachloroethene	0.15	Not Detected	1.0	Not Detected
2-Hexanone	0.74	Not Detected	3.0	Not Detected

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Client Sample ID: IAS-NIC-1035-CLEV-LVR-030812

Lab ID#: 1203248-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031410**	**Date of Collection:**	**3/8/12 4:57:00 PM**
Dil. Factor:	**1.49**	**Date of Analysis:**	**3/14/12 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.1	Not Detected
Chlorobenzene	0.15	Not Detected	0.68	Not Detected
Ethyl Benzene	0.15	2.3	0.65	10
m,p-Xylene	0.15	10	0.65	45
o-Xylene	0.15	4.8	0.65	21
Styrene	0.15	Not Detected	0.63	Not Detected
Bromoform	0.15	Not Detected	1.5	Not Detected
Cumene	0.15	0.30	0.73	1.5
1,1,2,2-Tetrachloroethane	0.15	Not Detected	1.0	Not Detected
Propylbenzene	0.15	0.93	0.73	4.6
4-Ethyltoluene	0.15	4.0	0.73	20
1,3,5-Trimethylbenzene	0.15	1.3	0.73	6.5
1,2,4-Trimethylbenzene	0.15	4.0	0.73	20
1,3-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,4-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.77	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,2,4-Trichlorobenzene	0.74	Not Detected	5.5	Not Detected
Hexachlorobutadiene	0.74	Not Detected	7.9	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203248-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 12:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1203248-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 12:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

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

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Client Sample ID: CCV

Lab ID#: 1203248-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 09:23 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	89
Chloromethane	77
Vinyl Chloride	87
1,3-Butadiene	86
Bromomethane	106
Chloroethane	88
Freon 11	89
Ethanol	90
Freon 113	88
1,1-Dichloroethene	84
Acetone	87
2-Propanol	100
Carbon Disulfide	90
3-Chloropropene	96
Methylene Chloride	82
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	86
Hexane	87
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	87
Tetrahydrofuran	94
Chloroform	89
1,1,1-Trichloroethane	91
Cyclohexane	86
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	97
Benzene	85
1,2-Dichloroethane	91
Heptane	88
Trichloroethene	89
1,2-Dichloropropane	86
1,4-Dioxane	83
Bromodichloromethane	93
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	90
Toluene	86
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	88
Tetrachloroethene	89
2-Hexanone	86

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Client Sample ID: CCV

Lab ID#: 1203248-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 09:23 AM**	

Compound	**%Recovery**
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	91
Chlorobenzene	88
Ethyl Benzene	86
m,p-Xylene	91
o-Xylene	89
Styrene	84
Bromoform	106
Cumene	88
1,1,2,2-Tetrachloroethane	88
Propylbenzene	88
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	89
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

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

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Client Sample ID: LCS

Lab ID#: 1203248-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 10:08 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	92
Chloromethane	82
Vinyl Chloride	91
1,3-Butadiene	88
Bromomethane	104
Chloroethane	89
Freon 11	92
Ethanol	91
Freon 113	92
1,1-Dichloroethene	92
Acetone	88
2-Propanol	90
Carbon Disulfide	112
3-Chloropropene	118
Methylene Chloride	83
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	100
Hexane	88
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	88
Tetrahydrofuran	92
Chloroform	92
1,1,1-Trichloroethane	94
Cyclohexane	89
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	87
Benzene	89
1,2-Dichloroethane	94
Heptane	89
Trichloroethene	94
1,2-Dichloropropane	89
1,4-Dioxane	84
Bromodichloromethane	96
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	91
Toluene	86
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	90
Tetrachloroethene	91
2-Hexanone	93

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Client Sample ID: LCS

Lab ID#: 1203248-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 10:08 AM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	94
Chlorobenzene	91
Ethyl Benzene	88
m,p-Xylene	92
o-Xylene	88
Styrene	84
Bromoform	106
Cumene	89
1,1,2,2-Tetrachloroethane	91
Propylbenzene	88
4-Ethyltoluene	84
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	80
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1203248-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 10:53 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	91
Chloromethane	81
Vinyl Chloride	91
1,3-Butadiene	88
Bromomethane	104
Chloroethane	87
Freon 11	91
Ethanol	88
Freon 113	90
1,1-Dichloroethene	89
Acetone	86
2-Propanol	90
Carbon Disulfide	111
3-Chloropropene	116
Methylene Chloride	83
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	98
Hexane	88
1,1-Dichloroethane	88
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	88
Tetrahydrofuran	91
Chloroform	91
1,1,1-Trichloroethane	92
Cyclohexane	87
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	88
Benzene	88
1,2-Dichloroethane	94
Heptane	88
Trichloroethene	93
1,2-Dichloropropane	90
1,4-Dioxane	85
Bromodichloromethane	95
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	91
Toluene	86
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	90
Tetrachloroethene	90
2-Hexanone	92

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Client Sample ID: LCSD

Lab ID#: 1203248-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 10:53 AM**	

Compound	**%Recovery**
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	94
Chlorobenzene	89
Ethyl Benzene	86
m,p-Xylene	89
o-Xylene	88
Styrene	83
Bromoform	106
Cumene	87
1,1,2,2-Tetrachloroethane	89
Propylbenzene	86
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	79
1,3-Dichlorobenzene	89
1,4-Dichlorobenzene	84
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	86

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

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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 Kevin Rood (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company CDM Smith Email marshallp@cdmsmith.com williamsmk@cdmsmith.com
Address 345 Riverview, Ste 570 City Wichita State KS Zip 67203
Phone 316-660-6700 Fax 316-264-3025

Project Info:
P.O. #
Project # 2395-887074
Project Name NIC Site-Wide V1

Turn Around Time:
☑ Normal
☐ Rush
specify

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)
01A	IAS-NIC-1402ARN-ACL-030812	4353	3/8/12	1032	TO-15 MS SCAN	-28.5	-5.5		
02A	IAS-NIC-1402 ARN-LVR-030812	24486	3/8/12	1032	TO-15 MS SCAN	-28	-3		
03A	IAS-NIC-1035 CLEVBSMT-030812	5682	3/8/12	1644	TO-15 MS SCAN	-29	-8.5		
04A	IAS-NIC-1035 CLEV-LVR-030812	5667	3/8/12	1658	TO-15 MS SCAN	-28	-7.5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/9/12 1458	[signature] ATL	3/12/12 0845
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 #
	FED EX		NA	GOOD	Yes No None	1203248

Form 1293 rev.11

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3/25/2012
Ms. Monica Williams
CDM Smith Inc.
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-Wide VI
Project #: 2395-88707
Workorder #: 1203249A

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 3/12/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203249A

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-Wide VI
DATE RECEIVED:	03/12/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/25/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAS-NIC-1105E12TH-030712	Modified TO-15	9.0 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 03/25/12

Certfication 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
CDM Smith Inc.
Workorder# 1203249A

One 6 Liter Summa Canister (100% Certified) sample was received on March 12, 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.

Requirement	***TO-15***	***ATL Modifications***
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

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

Client Sample ID: IAS-NIC-1105E12TH-030712

Lab ID#: 1203249A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.46	0.94	2.3
Chloromethane	0.19	0.58	0.39	1.2
Freon 11	0.19	0.19	1.1	1.1
Ethanol	0.96	150 E	1.8	290 E
Acetone	0.96	28	2.3	65
2-Propanol	0.96	22	2.3	55
Chloroform	0.19	0.20	0.93	0.97
Toluene	0.19	1.5	0.72	5.8

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Client Sample ID: IAS-NIC-1105E12TH-030712

Lab ID#: 1203249A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031509**	**Date of Collection:**	**3/7/12 12:05:00 PM**
Dil. Factor:	**1.91**	**Date of Analysis:**	**3/15/12 02:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.46	0.94	2.3
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.19	0.58	0.39	1.2
Vinyl Chloride	0.19	Not Detected	0.49	Not Detected
1,3-Butadiene	0.19	Not Detected	0.42	Not Detected
Bromomethane	0.19	Not Detected	0.74	Not Detected
Chloroethane	0.96	Not Detected	2.5	Not Detected
Freon 11	0.19	0.19	1.1	1.1
Ethanol	0.96	150 E	1.8	290 E
Freon 113	0.19	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Acetone	0.96	28	2.3	65
2-Propanol	0.96	22	2.3	55
Carbon Disulfide	0.96	Not Detected	3.0	Not Detected
3-Chloropropene	0.96	Not Detected	3.0	Not Detected
Methylene Chloride	0.38	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.69	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Hexane	0.19	Not Detected	0.67	Not Detected
1,1-Dichloroethane	0.19	Not Detected	0.77	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.96	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Tetrahydrofuran	0.96	Not Detected	2.8	Not Detected
Chloroform	0.19	0.20	0.93	0.97
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	Not Detected	0.66	Not Detected
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.96	Not Detected	4.5	Not Detected
Benzene	0.19	Not Detected	0.61	Not Detected
1,2-Dichloroethane	0.19	Not Detected	0.77	Not Detected
Heptane	0.19	Not Detected	0.78	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.88	Not Detected
1,4-Dioxane	0.19	Not Detected	0.69	Not Detected
Bromodichloromethane	0.19	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.87	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.78	Not Detected
Toluene	0.19	1.5	0.72	5.8
trans-1,3-Dichloropropene	0.19	Not Detected	0.87	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.96	Not Detected	3.9	Not Detected

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Client Sample ID: IAS-NIC-1105E12TH-030712

Lab ID#: 1203249A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031509**	**Date of Collection:**	**3/7/12 12:05:00 PM**
Dil. Factor:	**1.91**	**Date of Analysis:**	**3/15/12 02:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.5	Not Detected
Chlorobenzene	0.19	Not Detected	0.88	Not Detected
Ethyl Benzene	0.19	Not Detected	0.83	Not Detected
m,p-Xylene	0.19	Not Detected	0.83	Not Detected
o-Xylene	0.19	Not Detected	0.83	Not Detected
Styrene	0.19	Not Detected	0.81	Not Detected
Bromoform	0.19	Not Detected	2.0	Not Detected
Cumene	0.19	Not Detected	0.94	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.94	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.94	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.99	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.96	Not Detected	7.1	Not Detected
Hexachlorobutadiene	0.96	Not Detected	10	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

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

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Client Sample ID: Lab Blank

Lab ID#: 1203249A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 11:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1203249A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 11:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 1203249A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 09:01 AM**	

Compound	**%Recovery**
Freon 12	91
Freon 114	88
Chloromethane	77
Vinyl Chloride	86
1,3-Butadiene	83
Bromomethane	101
Chloroethane	83
Freon 11	88
Ethanol	90
Freon 113	86
1,1-Dichloroethene	82
Acetone	86
2-Propanol	87
Carbon Disulfide	89
3-Chloropropene	95
Methylene Chloride	80
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	83
Hexane	84
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	84
Tetrahydrofuran	93
Chloroform	87
1,1,1-Trichloroethane	88
Cyclohexane	82
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	88
Benzene	85
1,2-Dichloroethane	92
Heptane	87
Trichloroethene	89
1,2-Dichloropropane	85
1,4-Dioxane	81
Bromodichloromethane	92
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	88
Toluene	84
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	89
Tetrachloroethene	89
2-Hexanone	84

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Client Sample ID: CCV

Lab ID#: 1203249A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 09:01 AM**	

Compound	**%Recovery**
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	92
Chlorobenzene	87
Ethyl Benzene	85
m,p-Xylene	86
o-Xylene	86
Styrene	80
Bromoform	108
Cumene	84
1,1,2,2-Tetrachloroethane	88
Propylbenzene	81
4-Ethyltoluene	82
1,3,5-Trimethylbenzene	81
1,2,4-Trimethylbenzene	78
1,3-Dichlorobenzene	87
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS

Lab ID#: 1203249A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 09:45 AM**	

Compound	**%Recovery**
Freon 12	94
Freon 114	90
Chloromethane	80
Vinyl Chloride	88
1,3-Butadiene	86
Bromomethane	101
Chloroethane	86
Freon 11	89
Ethanol	87
Freon 113	90
1,1-Dichloroethene	90
Acetone	86
2-Propanol	88
Carbon Disulfide	109
3-Chloropropene	114
Methylene Chloride	81
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	95
Hexane	86
1,1-Dichloroethane	88
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	87
Tetrahydrofuran	90
Chloroform	90
1,1,1-Trichloroethane	91
Cyclohexane	86
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	82
Benzene	88
1,2-Dichloroethane	92
Heptane	88
Trichloroethene	92
1,2-Dichloropropane	88
1,4-Dioxane	84
Bromodichloromethane	93
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	90
Toluene	86
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	87
Tetrachloroethene	90
2-Hexanone	92

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Client Sample ID: LCS

Lab ID#: 1203249A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 09:45 AM**	

Compound	**%Recovery**
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	91
Chlorobenzene	90
Ethyl Benzene	88
m,p-Xylene	90
o-Xylene	88
Styrene	84
Bromoform	102
Cumene	89
1,1,2,2-Tetrachloroethane	89
Propylbenzene	87
4-Ethyltoluene	85
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	81
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	87

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 1203249A-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 10:21 AM**	

Compound	**%Recovery**
Freon 12	99
Freon 114	94
Chloromethane	84
Vinyl Chloride	94
1,3-Butadiene	91
Bromomethane	105
Chloroethane	90
Freon 11	94
Ethanol	91
Freon 113	94
1,1-Dichloroethene	95
Acetone	90
2-Propanol	94
Carbon Disulfide	116
3-Chloropropene	124
Methylene Chloride	86
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	102
Hexane	91
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	92
Tetrahydrofuran	97
Chloroform	95
1,1,1-Trichloroethane	98
Cyclohexane	91
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	87
Benzene	94
1,2-Dichloroethane	99
Heptane	93
Trichloroethene	98
1,2-Dichloropropane	95
1,4-Dioxane	90
Bromodichloromethane	100
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	97
Toluene	90
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	98
Tetrachloroethene	96
2-Hexanone	99

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Client Sample ID: LCSD

Lab ID#: 1203249A-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/12 10:21 AM**	

Compound	**%Recovery**
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	101
Chlorobenzene	96
Ethyl Benzene	92
m,p-Xylene	92
o-Xylene	91
Styrene	86
Bromoform	114
Cumene	92
1,1,2,2-Tetrachloroethane	98
Propylbenzene	90
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

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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: Kevin Read (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith — Email: monicaj@cdmsmith.com, williamsmk@cdmsmith.com
Address: 345 Riverview, Ste 520 — City: Wichita — State: KS — Zip: 67203
Phone: 316-660-6700 — Fax: 316-264-3025

Project Info:
P.O. #
Project #: 2345-88707
Project Name: NIC Site-Wide V1

Turn Around Time:
☒ Normal
☐ Rush
specify

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)
OA	IAGS-NIC-1105EIGTH-030712	5589	3/7/12	1205	TO-15 MS SCAN	-28.5	-7.5		
	IAGS-NIC-1347MATH-030712	34156	3/7/12	1700	TO-15	-29	-2		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/9/12 1468	[signature] ATL	3/12/12 0845
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 #
	FED EX		NA	Good	Yes No None	1203240

Form 1293 rev.11

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3/25/2012
Ms. Monica Williams
CDM Smith Inc.
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-Wide VI
Project #: 2395-88707
Workorder #: 1203249B

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 3/12/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203249B

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-Wide VI
DATE RECEIVED:	03/12/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/25/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
02A	IAGS-NIC-1347MATH-030712	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: Linda L. Freeman DATE: 03/25/12

Laboratory Director

Certfication 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
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LABORATORY NARRATIVE
EPA Method TO-15
CDM Smith Inc.
Workorder# 1203249B

One 1 Liter Summa Canister (100% Certified) sample was received on March 12, 2012. The laboratory performed analysis via 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.

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

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

Client Sample ID: IAGS-NIC-1347MATH-030712

Lab ID#: 1203249B-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	3.9	9.8	7.4	18
Chloroform	0.98	16	4.8	79
Carbon Tetrachloride	0.98	1.8	6.2	12
Toluene	0.98	5.2	3.7	20

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Client Sample ID: IAGS-NIC-1347MATH-030712

Lab ID#: 1203249B-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031434**	**Date of Collection:**	**3/7/12 5:00:00 PM**
Dil. Factor:	**1.96**	**Date of Analysis:**	**3/15/12 07:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.98	Not Detected	4.8	Not Detected
Freon 114	0.98	Not Detected	6.8	Not Detected
Chloromethane	9.8	Not Detected	20	Not Detected
Vinyl Chloride	0.98	Not Detected	2.5	Not Detected
1,3-Butadiene	0.98	Not Detected	2.2	Not Detected
Bromomethane	9.8	Not Detected	38	Not Detected
Chloroethane	3.9	Not Detected	10	Not Detected
Freon 11	0.98	Not Detected	5.5	Not Detected
Ethanol	3.9	9.8	7.4	18
Freon 113	0.98	Not Detected	7.5	Not Detected
1,1-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Acetone	9.8	Not Detected	23	Not Detected
2-Propanol	3.9	Not Detected	9.6	Not Detected
Carbon Disulfide	3.9	Not Detected	12	Not Detected
3-Chloropropene	3.9	Not Detected	12	Not Detected
Methylene Chloride	9.8	Not Detected	34	Not Detected
Methyl tert-butyl ether	0.98	Not Detected	3.5	Not Detected
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Hexane	0.98	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.98	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.9	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
Chloroform	0.98	16	4.8	79
1,1,1-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Cyclohexane	0.98	Not Detected	3.4	Not Detected
Carbon Tetrachloride	0.98	1.8	6.2	12
2,2,4-Trimethylpentane	0.98	Not Detected	4.6	Not Detected
Benzene	0.98	Not Detected	3.1	Not Detected
1,2-Dichloroethane	0.98	Not Detected	4.0	Not Detected
Heptane	0.98	Not Detected	4.0	Not Detected
Trichloroethene	0.98	Not Detected	5.3	Not Detected
1,2-Dichloropropane	0.98	Not Detected	4.5	Not Detected
1,4-Dioxane	3.9	Not Detected	14	Not Detected
Bromodichloromethane	0.98	Not Detected	6.6	Not Detected
cis-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
4-Methyl-2-pentanone	0.98	Not Detected	4.0	Not Detected
Toluene	0.98	5.2	3.7	20
trans-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Tetrachloroethene	0.98	Not Detected	6.6	Not Detected
2-Hexanone	3.9	Not Detected	16	Not Detected

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Client Sample ID: IAGS-NIC-1347MATH-030712

Lab ID#: 1203249B-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031434**	**Date of Collection:**	**3/7/12 5:00:00 PM**
Dil. Factor:	**1.96**	**Date of Analysis:**	**3/15/12 07:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.98	Not Detected	8.3	Not Detected
1,2-Dibromoethane (EDB)	0.98	Not Detected	7.5	Not Detected
Chlorobenzene	0.98	Not Detected	4.5	Not Detected
Ethyl Benzene	0.98	Not Detected	4.2	Not Detected
m,p-Xylene	0.98	Not Detected	4.2	Not Detected
o-Xylene	0.98	Not Detected	4.2	Not Detected
Styrene	0.98	Not Detected	4.2	Not Detected
Bromoform	0.98	Not Detected	10	Not Detected
Cumene	0.98	Not Detected	4.8	Not Detected
1,1,2,2-Tetrachloroethane	0.98	Not Detected	6.7	Not Detected
Propylbenzene	0.98	Not Detected	4.8	Not Detected
4-Ethyltoluene	0.98	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,2,4-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,3-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,4-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
alpha-Chlorotoluene	0.98	Not Detected	5.1	Not Detected
1,2-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,2,4-Trichlorobenzene	3.9	Not Detected	29	Not Detected
Hexachlorobutadiene	3.9	Not Detected	42	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203249B-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 01:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1203249B-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 01:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: CCV

Lab ID#: 1203249B-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 11:59 AM**	

Compound	**%Recovery**
Freon 12	98
Freon 114	94
Chloromethane	83
Vinyl Chloride	92
1,3-Butadiene	88
Bromomethane	98
Chloroethane	92
Freon 11	96
Ethanol	85
Freon 113	90
1,1-Dichloroethene	92
Acetone	92
2-Propanol	88
Carbon Disulfide	90
3-Chloropropene	87
Methylene Chloride	93
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	90
Hexane	88
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	89
Tetrahydrofuran	91
Chloroform	94
1,1,1-Trichloroethane	94
Cyclohexane	90
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	88
Benzene	87
1,2-Dichloroethane	100
Heptane	90
Trichloroethene	90
1,2-Dichloropropane	92
1,4-Dioxane	89
Bromodichloromethane	93
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	86
Toluene	86
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	94
Tetrachloroethene	89
2-Hexanone	92

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Client Sample ID: CCV

Lab ID#: 1203249B-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 11:59 AM**	

Compound	**%Recovery**
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	92
Chlorobenzene	79
Ethyl Benzene	90
m,p-Xylene	90
o-Xylene	88
Styrene	87
Bromoform	87
Cumene	89
1,1,2,2-Tetrachloroethane	88
Propylbenzene	88
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	81
alpha-Chlorotoluene	79
1,2-Dichlorobenzene	81
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	81

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 1203249B-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 12:39 PM**	

Compound	**%Recovery**
Freon 12	112
Freon 114	108
Chloromethane	91
Vinyl Chloride	108
1,3-Butadiene	102
Bromomethane	108
Chloroethane	105
Freon 11	111
Ethanol	94
Freon 113	103
1,1-Dichloroethene	111
Acetone	102
2-Propanol	102
Carbon Disulfide	124
3-Chloropropene	116
Methylene Chloride	106
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	115
Hexane	101
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	103
Tetrahydrofuran	101
Chloroform	108
1,1,1-Trichloroethane	108
Cyclohexane	102
Carbon Tetrachloride	111
2,2,4-Trimethylpentane	98
Benzene	101
1,2-Dichloroethane	114
Heptane	100
Trichloroethene	106
1,2-Dichloropropane	107
1,4-Dioxane	101
Bromodichloromethane	109
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	101
Toluene	101
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	108
Tetrachloroethene	101
2-Hexanone	108

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Client Sample ID: LCS

Lab ID#: 1203249B-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 12:39 PM**	

Compound	**%Recovery**
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	109
Chlorobenzene	91
Ethyl Benzene	103
m,p-Xylene	105
o-Xylene	102
Styrene	106
Bromoform	100
Cumene	103
1,1,2,2-Tetrachloroethane	102
Propylbenzene	103
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	91
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCSD

Lab ID#: 1203249B-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 12:56 PM**	

Compound	**%Recovery**
Freon 12	116
Freon 114	111
Chloromethane	92
Vinyl Chloride	112
1,3-Butadiene	103
Bromomethane	114
Chloroethane	109
Freon 11	116
Ethanol	100
Freon 113	108
1,1-Dichloroethene	115
Acetone	104
2-Propanol	106
Carbon Disulfide	130
3-Chloropropene	120
Methylene Chloride	110
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	121
Hexane	106
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	108
Tetrahydrofuran	104
Chloroform	112
1,1,1-Trichloroethane	113
Cyclohexane	108
Carbon Tetrachloride	119
2,2,4-Trimethylpentane	104
Benzene	102
1,2-Dichloroethane	114
Heptane	100
Trichloroethene	107
1,2-Dichloropropane	107
1,4-Dioxane	100
Bromodichloromethane	108
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	97
Toluene	99
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	110
Tetrachloroethene	102
2-Hexanone	108

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Client Sample ID: LCSD

Lab ID#: 1203249B-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j031405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/12 12:56 PM**	

Compound	**%Recovery**
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	110
Chlorobenzene	92
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	104
Styrene	105
Bromoform	101
Cumene	106
1,1,2,2-Tetrachloroethane	105
Propylbenzene	105
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	89

Container Type: NA - Not Applicable

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

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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 Kevin Reed (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company CDM Smith Email williamsmk@cdmsmith.com martadisj@cdmsmith.com
Address 345 Riverview, Ste 570 City Wichita State KS Zip 67203
Phone 316-660-6700 Fax 316-264-3025

Project Info:
P.O. #
Project # 2395-88707
Project Name NIC Site-Wide V1

Turn Around Time:
☒ Normal
☐ Rush
specify

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)
~~01A~~ NLJ 3/12/12	IAGS-NIC-1105 EIGHTH-030712	5589	3/7/12	1205	TO-15 MS SCAN	-28.5	-7.5		
02A	IAGS-NIC-1347 MATH-030712	34156	3/7/12	1700	TO-15	-29	-2		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/9/12 1458	[signature] ATL	3/12/12 0845
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 #
	FED EX		NA	GOOD	Yes No (None)	1203240

Form 1293 rev.11

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3/27/2012
Ms. Monica Williams
CDM Smith Inc.
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-Wide VI
Project #: 2395-88707
Workorder #: 1203300

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 3/14/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203300

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-Wide VI
DATE RECEIVED:	03/14/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/27/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAS-NIC-1347MATH-LVR-031212	Modified TO-15	6.5 "Hg	5 psi
02A	IAS-NIC-1347MATH-BSMT-031212	Modified TO-15	7.5 "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: Linda J. Freeman DATE: 03/27/12

Laboratory Director

Certfication 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
CDM Smith Inc.
Workorder# 1203300

Two 6 Liter Summa Canister (100% Certified) samples were received on March 14, 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.

Requirement	***TO-15***	***ATL Modifications***
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

Dilution was performed on sample IAS-NIC-1347MATH-LVR-031212 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

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

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

Client Sample ID: IAS-NIC-1347MATH-LVR-031212

Lab ID#: 1203300-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.43	0.62	2.1	3.1
Chloromethane	0.43	0.87	0.88	1.8
Ethanol	2.1	1100 E	4.0	2100 E
Acetone	2.1	25	5.1	60
2-Propanol	2.1	12	5.2	31
Hexane	0.43	0.58	1.5	2.0
2-Butanone (Methyl Ethyl Ketone)	2.1	3.0	6.3	8.8
Toluene	0.43	4.4	1.6	16
1,4-Dichlorobenzene	0.43	0.60	2.6	3.6

Client Sample ID: IAS-NIC-1347MATH-BSMT-031212

Lab ID#: 1203300-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.52	0.88	2.6
Chloromethane	0.18	0.54	0.37	1.1
Freon 11	0.18	0.25	1.0	1.4
Ethanol	0.90	530 E	1.7	1000 E
Acetone	0.90	20	2.1	46
2-Propanol	0.90	16	2.2	38
Hexane	0.18	0.60	0.63	2.1
2-Butanone (Methyl Ethyl Ketone)	0.90	1.8	2.6	5.3
Chloroform	0.18	0.28	0.87	1.4
Cyclohexane	0.18	0.25	0.62	0.85
Benzene	0.18	0.26	0.57	0.82
Heptane	0.18	0.33	0.73	1.4
Toluene	0.18	1.9	0.67	7.2
m,p-Xylene	0.18	0.32	0.78	1.4
Styrene	0.18	0.19	0.76	0.82
1,2,4-Trimethylbenzene	0.18	0.21	0.88	1.0
1,4-Dichlorobenzene	0.18	2.1	1.1	12

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Client Sample ID: IAS-NIC-1347MATH-LVR-031212

Lab ID#: 1203300-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031617**	**Date of Collection:**	**3/12/12 10:17:00 AM**
Dil. Factor:	**4.28**	**Date of Analysis:**	**3/16/12 08:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.43	0.62	2.1	3.1
Freon 114	0.43	Not Detected	3.0	Not Detected
Chloromethane	0.43	0.87	0.88	1.8
Vinyl Chloride	0.43	Not Detected	1.1	Not Detected
1,3-Butadiene	0.43	Not Detected	0.95	Not Detected
Bromomethane	0.43	Not Detected	1.7	Not Detected
Chloroethane	2.1	Not Detected	5.6	Not Detected
Freon 11	0.43	Not Detected	2.4	Not Detected
Ethanol	2.1	1100 E	4.0	2100 E
Freon 113	0.43	Not Detected	3.3	Not Detected
1,1-Dichloroethene	0.43	Not Detected	1.7	Not Detected
Acetone	2.1	25	5.1	60
2-Propanol	2.1	12	5.2	31
Carbon Disulfide	2.1	Not Detected	6.7	Not Detected
3-Chloropropene	2.1	Not Detected	6.7	Not Detected
Methylene Chloride	0.86	Not Detected UJ	3.0	Not Detected UJ
Methyl tert-butyl ether	0.43	Not Detected	1.5	Not Detected
trans-1,2-Dichloroethene	0.43	Not Detected	1.7	Not Detected
Hexane	0.43	0.58	1.5	2.0
1,1-Dichloroethane	0.43	Not Detected	1.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.1	3.0	6.3	8.8
cis-1,2-Dichloroethene	0.43	Not Detected	1.7	Not Detected
Tetrahydrofuran	2.1	Not Detected	6.3	Not Detected
Chloroform	0.43	Not Detected	2.1	Not Detected
1,1,1-Trichloroethane	0.43	Not Detected	2.3	Not Detected
Cyclohexane	0.43	Not Detected	1.5	Not Detected
Carbon Tetrachloride	0.43	Not Detected	2.7	Not Detected
2,2,4-Trimethylpentane	2.1	Not Detected	10	Not Detected
Benzene	0.43	Not Detected	1.4	Not Detected
1,2-Dichloroethane	0.43	Not Detected	1.7	Not Detected
Heptane	0.43	Not Detected	1.8	Not Detected
Trichloroethene	0.43	Not Detected	2.3	Not Detected
1,2-Dichloropropane	0.43	Not Detected	2.0	Not Detected
1,4-Dioxane	0.43	Not Detected	1.5	Not Detected
Bromodichloromethane	0.43	Not Detected	2.9	Not Detected
cis-1,3-Dichloropropene	0.43	Not Detected	1.9	Not Detected
4-Methyl-2-pentanone	0.43	Not Detected	1.8	Not Detected
Toluene	0.43	4.4	1.6	16
trans-1,3-Dichloropropene	0.43	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.43	Not Detected	2.3	Not Detected
Tetrachloroethene	0.43	Not Detected	2.9	Not Detected
2-Hexanone	2.1	Not Detected	8.8	Not Detected

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Client Sample ID: IAS-NIC-1347MATH-LVR-031212

Lab ID#: 1203300-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031617**	**Date of Collection:**	**3/12/12 10:17:00 AM**
Dil. Factor:	**4.28**	**Date of Analysis:**	**3/16/12 08:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.43	Not Detected	3.6	Not Detected
1,2-Dibromoethane (EDB)	0.43	Not Detected	3.3	Not Detected
Chlorobenzene	0.43	Not Detected	2.0	Not Detected
Ethyl Benzene	0.43	Not Detected	1.8	Not Detected
m,p-Xylene	0.43	Not Detected	1.8	Not Detected
o-Xylene	0.43	Not Detected	1.8	Not Detected
Styrene	0.43	Not Detected	1.8	Not Detected
Bromoform	0.43	Not Detected	4.4	Not Detected
Cumene	0.43	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.43	Not Detected	2.9	Not Detected
Propylbenzene	0.43	Not Detected	2.1	Not Detected
4-Ethyltoluene	0.43	Not Detected	2.1	Not Detected
1,3,5-Trimethylbenzene	0.43	Not Detected	2.1	Not Detected
1,2,4-Trimethylbenzene	0.43	Not Detected	2.1	Not Detected
1,3-Dichlorobenzene	0.43	Not Detected	2.6	Not Detected
1,4-Dichlorobenzene	0.43	0.60	2.6	3.6
alpha-Chlorotoluene	0.43	Not Detected	2.2	Not Detected
1,2-Dichlorobenzene	0.43	Not Detected	2.6	Not Detected
1,2,4-Trichlorobenzene	2.1	Not Detected	16	Not Detected
Hexachlorobutadiene	2.1	Not Detected	23	Not Detected

E = Exceeds instrument calibration range.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 6 Liter Summa Canister (100% Certified)

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

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Client Sample ID: IAS-NIC-1347MATH-BSMT-031212

Lab ID#: 1203300-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031616**	**Date of Collection:**	**3/12/12 10:18:00 AM**
Dil. Factor:	**1.79**	**Date of Analysis:**	**3/16/12 08:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.52	0.88	2.6
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.18	0.54	0.37	1.1
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.18	Not Detected	0.70	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.18	0.25	1.0	1.4
Ethanol	0.90	530 E	1.7	1000 E
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Acetone	0.90	20	2.1	46
2-Propanol	0.90	16	2.2	38
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected UJ	1.2	Not Detected UJ
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Hexane	0.18	0.60	0.63	2.1
1,1-Dichloroethane	0.18	Not Detected	0.72	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.8	2.6	5.3
cis-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Chloroform	0.18	0.28	0.87	1.4
1,1,1-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Cyclohexane	0.18	0.25	0.62	0.85
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Benzene	0.18	0.26	0.57	0.82
1,2-Dichloroethane	0.18	Not Detected	0.72	Not Detected
Heptane	0.18	0.33	0.73	1.4
Trichloroethene	0.18	Not Detected	0.96	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.73	Not Detected
Toluene	0.18	1.9	0.67	7.2
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected

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Client Sample ID: IAS-NIC-1347MATH-BSMT-031212

Lab ID#: 1203300-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031616**	**Date of Collection:**	**3/12/12 10:18:00 AM**
Dil. Factor:	**1.79**	**Date of Analysis:**	**3/16/12 08:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Ethyl Benzene	0.18	Not Detected	0.78	Not Detected
m,p-Xylene	0.18	0.32	0.78	1.4
o-Xylene	0.18	Not Detected	0.78	Not Detected
Styrene	0.18	0.19	0.76	0.82
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.88	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	0.21	0.88	1.0
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	2.1	1.1	12
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.5	Not Detected

E = Exceeds instrument calibration range.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203300-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 03:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected UJ	0.69	Not Detected UJ
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1203300-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 03:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 1203300-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 09:58 AM**	

Compound	**%Recovery**
Freon 12	91
Freon 114	94
Chloromethane	90
Vinyl Chloride	93
1,3-Butadiene	92
Bromomethane	82
Chloroethane	94
Freon 11	90
Ethanol	90
Freon 113	94
1,1-Dichloroethene	96
Acetone	92
2-Propanol	98
Carbon Disulfide	89
3-Chloropropene	99
Methylene Chloride	56 Q
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	98
Hexane	100
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	104
Tetrahydrofuran	96
Chloroform	94
1,1,1-Trichloroethane	96
Cyclohexane	100
Carbon Tetrachloride	123
2,2,4-Trimethylpentane	97
Benzene	90
1,2-Dichloroethane	90
Heptane	100
Trichloroethene	94
1,2-Dichloropropane	89
1,4-Dioxane	105
Bromodichloromethane	97
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	108
Toluene	94
trans-1,3-Dichloropropene	85
1,1,2-Trichloroethane	95
Tetrachloroethene	99
2-Hexanone	102

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Client Sample ID: CCV

Lab ID#: 1203300-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 09:58 AM**	

Compound	**%Recovery**
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	98
Chlorobenzene	92
Ethyl Benzene	100
m,p-Xylene	102
o-Xylene	104
Styrene	107
Bromoform	112
Cumene	106
1,1,2,2-Tetrachloroethane	88
Propylbenzene	99
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	111
Hexachlorobutadiene	106

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1203300-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 08:22 AM**	

Compound	**%Recovery**
Freon 12	92
Freon 114	93
Chloromethane	91
Vinyl Chloride	93
1,3-Butadiene	91
Bromomethane	87
Chloroethane	90
Freon 11	90
Ethanol	82
Freon 113	93
1,1-Dichloroethene	100
Acetone	85
2-Propanol	96
Carbon Disulfide	106
3-Chloropropene	108
Methylene Chloride	63 Q
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	105
Hexane	97
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	101
Tetrahydrofuran	88
Chloroform	94
1,1,1-Trichloroethane	97
Cyclohexane	96
Carbon Tetrachloride	69 Q
2,2,4-Trimethylpentane	85
Benzene	89
1,2-Dichloroethane	92
Heptane	99
Trichloroethene	89
1,2-Dichloropropane	89
1,4-Dioxane	98
Bromodichloromethane	95
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	106
Toluene	91
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	93
Tetrachloroethene	97
2-Hexanone	102

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Client Sample ID: LCS

Lab ID#: 1203300-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 08:22 AM**	

Compound	**%Recovery**
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	100
Chlorobenzene	93
Ethyl Benzene	99
m,p-Xylene	104
o-Xylene	106
Styrene	105
Bromoform	104
Cumene	107
1,1,2,2-Tetrachloroethane	97
Propylbenzene	102
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	103

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1203300-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 09:07 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	93
Chloromethane	89
Vinyl Chloride	92
1,3-Butadiene	92
Bromomethane	80
Chloroethane	89
Freon 11	90
Ethanol	83
Freon 113	94
1,1-Dichloroethene	104
Acetone	88
2-Propanol	98
Carbon Disulfide	106
3-Chloropropene	110
Methylene Chloride	50 Q
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	107
Hexane	97
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	101
Tetrahydrofuran	89
Chloroform	94
1,1,1-Trichloroethane	97
Cyclohexane	99
Carbon Tetrachloride	69 Q
2,2,4-Trimethylpentane	86
Benzene	88
1,2-Dichloroethane	90
Heptane	99
Trichloroethene	88
1,2-Dichloropropane	88
1,4-Dioxane	99
Bromodichloromethane	94
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	103
Toluene	91
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	90
Tetrachloroethene	94
2-Hexanone	98

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Client Sample ID: LCSD

Lab ID#: 1203300-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e031604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/16/12 09:07 AM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	99
Chlorobenzene	91
Ethyl Benzene	99
m,p-Xylene	102
o-Xylene	103
Styrene	104
Bromoform	103
Cumene	105
1,1,2,2-Tetrachloroethane	94
Propylbenzene	99
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	102

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

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CHAIN-OF-CUSTODY RECORD

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Project Info:
P.O. # ____
Project # 2395-889075
Project Name NJC Site-wide VI

Turn Around Time:
☒ Normal
☐ Rush
specify

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)
01A	IAS-NJC-1347MATH-LVR-031212	24993	3/12/12	1014	TO-15 MS SCAN	-27	-5.5		
02A	IAS-NJC-1347MATH-BSMT-031212	5632	3/12/12	1018	TO-15 MS SCAN	-28	-6.5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/13/12 1105	[signature]	3/14/12 0930
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 #
	FedEx		AV	Good	Yes No None ✓	1203300

Form 1293 rev.11

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3/28/2012
Ms. Monica Williams
CDM Smith Inc.
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Sitewide VI
Project #: 2395-88707
Workorder #: 1203325

Dear Ms. Monica Williams

The following report includes the data for the above referenced project for sample(s) received on 3/15/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203325

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Sitewide VI
DATE RECEIVED:	03/15/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/28/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAS-NIC-ENVIS104-031312	Modified TO-15	8.5 "Hg	5 psi
02A	IAS-NIC-1151OHIO-LVR-031312	Modified TO-15	6.0 "Hg	5 psi
03A	IAS-NIC-1151OHIO-CWL-031312	Modified TO-15	6.5 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Freeman

DATE: 03/28/12

Laboratory Director

Certfication 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
CDM Smith Inc.
Workorder# 1203325

Three 6 Liter Summa Canister (100% Certified) samples were received on March 15, 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.

Requirement	***TO-15***	***ATL Modifications***
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

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

Client Sample ID: IAS-NIC-ENVIS104-031312

Lab ID#: 1203325-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	1.0	0.92	5.0
Chloromethane	0.19	0.63	0.39	1.3
Freon 11	0.19	0.24	1.0	1.4
Ethanol	0.94	38	1.8	71
Acetone	0.94	120 E	2.2	300 E
2-Propanol	0.94	5.9	2.3	14
Hexane	0.19	0.40	0.66	1.4
2-Butanone (Methyl Ethyl Ketone)	0.94	1.2	2.8	3.4
Benzene	0.19	0.26	0.60	0.84
Heptane	0.19	0.20	0.77	0.80
1,4-Dioxane	0.19	0.19	0.67	0.69
Toluene	0.19	0.63	0.70	2.4
Ethyl Benzene	0.19	0.26	0.81	1.1
m,p-Xylene	0.19	0.45	0.81	2.0

Client Sample ID: IAS-NIC-1151OHIO-LVR-031312

Lab ID#: 1203325-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.83	2.5
Chloromethane	0.17	0.60	0.35	1.2
Freon 11	0.17	0.21	0.94	1.2
Ethanol	0.84	170 E	1.6	320 E
Acetone	0.84	10	2.0	25
2-Propanol	0.84	5.6	2.1	14
Hexane	0.17	0.58	0.59	2.1
2-Butanone (Methyl Ethyl Ketone)	0.84	0.87	2.5	2.6
Chloroform	0.17	1.0	0.82	5.1
Cyclohexane	0.17	0.23	0.58	0.78
Benzene	0.17	0.34	0.54	1.1
1,2-Dichloroethane	0.17	0.22	0.68	0.88
Heptane	0.17	0.28	0.69	1.1
Toluene	0.17	1.7	0.63	6.6

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

Client Sample ID: IAS-NIC-1151OHIO-LVR-031312

Lab ID#: 1203325-02A

Ethyl Benzene	0.17	0.18	0.73	0.78
m,p-Xylene	0.17	0.64	0.73	2.8
o-Xylene	0.17	0.21	0.73	0.93
1,2,4-Trimethylbenzene	0.17	0.17	0.82	0.82

Client Sample ID: IAS-NIC-1151OHIO-CWL-031312

Lab ID#: 1203325-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.52	0.84	2.6
Chloromethane	0.17	0.58	0.35	1.2
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	13	1.6	25
Acetone	0.86	4.6	2.0	11
Hexane	0.17	0.25	0.60	0.89
Toluene	0.17	0.37	0.64	1.4

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Client Sample ID: IAS-NIC-ENVIS104-031312

Lab ID#: 1203325-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031715**	**Date of Collection:**	**3/13/12 10:03:00 AM**
Dil. Factor:	**1.87**	**Date of Analysis:**	**3/17/12 04:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	1.0	0.92	5.0
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.19	0.63	0.39	1.3
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,3-Butadiene	0.19	Not Detected	0.41	Not Detected
Bromomethane	0.19	Not Detected	0.73	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.19	0.24	1.0	1.4
Ethanol	0.94	38	1.8	71
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Acetone	0.94	120 E	2.2	300 E
2-Propanol	0.94	5.9	2.3	14
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
3-Chloropropene	0.94	Not Detected	2.9	Not Detected
Methylene Chloride	0.37	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.67	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Hexane	0.19	0.40	0.66	1.4
1,1-Dichloroethane	0.19	Not Detected	0.76	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	1.2	2.8	3.4
cis-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
Chloroform	0.19	Not Detected	0.91	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	Not Detected	0.64	Not Detected
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Benzene	0.19	0.26	0.60	0.84
1,2-Dichloroethane	0.19	Not Detected	0.76	Not Detected
Heptane	0.19	0.20	0.77	0.80
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.86	Not Detected
1,4-Dioxane	0.19	0.19	0.67	0.69
Bromodichloromethane	0.19	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.77	Not Detected
Toluene	0.19	0.63	0.70	2.4
trans-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.94	Not Detected	3.8	Not Detected

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Client Sample ID: IAS-NIC-ENVIS104-031312

Lab ID#: 1203325-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031715**	**Date of Collection:**	**3/13/12 10:03:00 AM**
Dil. Factor:	**1.87**	**Date of Analysis:**	**3/17/12 04:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.4	Not Detected
Chlorobenzene	0.19	Not Detected	0.86	Not Detected
Ethyl Benzene	0.19	0.26	0.81	1.1
m,p-Xylene	0.19	0.45	0.81	2.0
o-Xylene	0.19	Not Detected	0.81	Not Detected
Styrene	0.19	Not Detected	0.80	Not Detected
Bromoform	0.19	Not Detected	1.9	Not Detected
Cumene	0.19	Not Detected	0.92	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.92	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.92	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.92	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.92	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.97	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.94	Not Detected	6.9	Not Detected
Hexachlorobutadiene	0.94	Not Detected	10	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: IAS-NIC-1151OHIO-LVR-031312

Lab ID#: 1203325-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031716**	**Date of Collection:**	**3/13/12 4:02:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**3/17/12 05:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.83	2.5
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.60	0.35	1.2
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.17	Not Detected	0.65	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.21	0.94	1.2
Ethanol	0.84	170 E	1.6	320 E
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	10	2.0	25
2-Propanol	0.84	5.6	2.1	14
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	0.58	0.59	2.1
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	0.87	2.5	2.6
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	1.0	0.82	5.1
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	0.23	0.58	0.78
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	0.34	0.54	1.1
1,2-Dichloroethane	0.17	0.22	0.68	0.88
Heptane	0.17	0.28	0.69	1.1
Trichloroethene	0.17	Not Detected	0.90	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	1.7	0.63	6.6
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected

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Client Sample ID: IAS-NIC-1151OHIO-LVR-031312

Lab ID#: 1203325-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031716**	**Date of Collection:**	**3/13/12 4:02:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**3/17/12 05:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	0.18	0.73	0.78
m,p-Xylene	0.17	0.64	0.73	2.8
o-Xylene	0.17	0.21	0.73	0.93
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	0.17	0.82	0.82
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: IAS-NIC-1151OHIO-CWL-031312

Lab ID#: 1203325-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031717**	**Date of Collection:**	**3/13/12 4:00:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**3/17/12 06:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.52	0.84	2.6
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.58	0.35	1.2
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	13	1.6	25
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	4.6	2.0	11
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	0.25	0.60	0.89
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	0.37	0.64	1.4
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected

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Client Sample ID: IAS-NIC-1151OHIO-CWL-031312

Lab ID#: 1203325-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031717**	**Date of Collection:**	**3/13/12 4:00:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**3/17/12 06:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	Not Detected	0.74	Not Detected
m,p-Xylene	0.17	Not Detected	0.74	Not Detected
o-Xylene	0.17	Not Detected	0.74	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203325-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 11:23 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1203325-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 11:23 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1203325-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:02 AM**	

Compound	**%Recovery**
Freon 12	93
Freon 114	89
Chloromethane	79
Vinyl Chloride	87
1,3-Butadiene	85
Bromomethane	104
Chloroethane	87
Freon 11	91
Ethanol	95
Freon 113	88
1,1-Dichloroethene	84
Acetone	89
2-Propanol	90
Carbon Disulfide	91
3-Chloropropene	98
Methylene Chloride	81
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	85
Hexane	88
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	86
Tetrahydrofuran	98
Chloroform	89
1,1,1-Trichloroethane	90
Cyclohexane	86
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	87
Benzene	89
1,2-Dichloroethane	97
Heptane	91
Trichloroethene	94
1,2-Dichloropropane	91
1,4-Dioxane	86
Bromodichloromethane	96
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	94
Toluene	87
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	92
Tetrachloroethene	92
2-Hexanone	86

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Client Sample ID: CCV

Lab ID#: 1203325-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:02 AM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	94
Chlorobenzene	90
Ethyl Benzene	87
m,p-Xylene	88
o-Xylene	89
Styrene	82
Bromoform	110
Cumene	88
1,1,2,2-Tetrachloroethane	92
Propylbenzene	86
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	94

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

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Client Sample ID: LCS

Lab ID#: 1203325-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:47 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	90
Chloromethane	84
Vinyl Chloride	92
1,3-Butadiene	88
Bromomethane	104
Chloroethane	88
Freon 11	92
Ethanol	91
Freon 113	91
1,1-Dichloroethene	91
Acetone	88
2-Propanol	92
Carbon Disulfide	112
3-Chloropropene	121
Methylene Chloride	84
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	99
Hexane	89
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	90
Tetrahydrofuran	96
Chloroform	92
1,1,1-Trichloroethane	94
Cyclohexane	87
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	82
Benzene	90
1,2-Dichloroethane	97
Heptane	91
Trichloroethene	92
1,2-Dichloropropane	92
1,4-Dioxane	85
Bromodichloromethane	96
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	95
Toluene	88
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	90
Tetrachloroethene	91
2-Hexanone	94

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Client Sample ID: LCS

Lab ID#: 1203325-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:47 AM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	96
Chlorobenzene	92
Ethyl Benzene	89
m,p-Xylene	92
o-Xylene	89
Styrene	85
Bromoform	107
Cumene	90
1,1,2,2-Tetrachloroethane	92
Propylbenzene	89
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	89

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

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Client Sample ID: LCSD

Lab ID#: 1203325-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 10:07 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	89
Chloromethane	81
Vinyl Chloride	89
1,3-Butadiene	87
Bromomethane	106
Chloroethane	87
Freon 11	90
Ethanol	88
Freon 113	88
1,1-Dichloroethene	90
Acetone	85
2-Propanol	104
Carbon Disulfide	111
3-Chloropropene	115
Methylene Chloride	81
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	96
Hexane	87
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	88
Tetrahydrofuran	92
Chloroform	91
1,1,1-Trichloroethane	92
Cyclohexane	87
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	82
Benzene	90
1,2-Dichloroethane	96
Heptane	90
Trichloroethene	94
1,2-Dichloropropane	91
1,4-Dioxane	85
Bromodichloromethane	96
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	93
Toluene	88
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	90
Tetrachloroethene	91
2-Hexanone	94

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Client Sample ID: LCSD

Lab ID#: 1203325-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 10:07 AM**	

Compound	**%Recovery**
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	95
Chlorobenzene	91
Ethyl Benzene	89
m,p-Xylene	94
o-Xylene	90
Styrene	84
Bromoform	106
Cumene	91
1,1,2,2-Tetrachloroethane	92
Propylbenzene	90
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

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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 Kevin Rood (Invoice: Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company CDM Smith Email martinbj@cdmsmith.com williamsmk@cdmsmith.com
Address 345 Riverview, Ste 520 City Wichita State KS Zip 67203
Phone 316-660-6700 Fax 316-264-3025

Project Info:
P.O. #
Project # 2395-85704
Project Name NIC Stewart VI

Turn Around Time:
☒ Normal
☐ Rush
specify

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)
01A	IAS-NIC-ENTS104-03/13/12	9542	3/13/12	1003	TO-15 MS Scan	-28	-7.5		
02A	IAS-NIC-11510HIO-LVR-03/312	34011	3/13/12	1602	TO-15 MS Scan	-28	-5		
03A	IAS-NIC-11510HIO-CWL-03/312	25276	3/13/12	1600	TO-15 MS Scan	-28	-5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	3/14/12 1654		3/15/12 0900
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 #
	FED EX		NA	GOOD	Yes No None	1203325

Form 1293 rev.11

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4/2/2012
Ms. Monica Williams
CDM Smith Inc.
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Sitewide VI
Project #: 2395-88707
Workorder #: 1203345

Dear Ms. Monica Williams

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 Passive Ultra III (TD) 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203345

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Sitewide VI
DATE RECEIVED:	03/16/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/02/2012		

FRACTION #	NAME	TEST
01A	OAP-NIC-EMPARK-030612	Passive Ultra III (TD)
01B	OAP-NIC-EMPARK-030612 Blank	Passive Ultra III (TD)
02A	OAP-NIC-1402ARNOLD-030612	Passive Ultra III (TD)
02B	OAP-NIC-1402ARNOLD-030612 Blank	Passive Ultra III (TD)
03A	OAP-NIC-1402ARNOLDQ-030612	Passive Ultra III (TD)
03B	OAP-NIC-1402ARNOLDQ-030612 Blank	Passive Ultra III (TD)
04A	OAP-NIC-DUNPARK-030612	Passive Ultra III (TD)
04B	OAP-NIC-DUNPARK-030612 Blank	Passive Ultra III (TD)
05A	OAP-NIC-717MATH-030612	Passive Ultra III (TD)
05B	OAP-NIC-717MATH-030612 Blank	Passive Ultra III (TD)
06A	OAP-NIC-UMC-030612	Passive Ultra III (TD)
06B	OAP-NIC-UMC-030612 Blank	Passive Ultra III (TD)
07A	Lab Blank	Passive Ultra III (TD)
08A	CCV	Passive Ultra III (TD)
09A	LCS	Passive Ultra III (TD)
09AA	LCSD	Passive Ultra III (TD)

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 04/02/12

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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
Passive TO-17 GC/MS
CDM Smith Inc.
Workorder# 1203345

Six Ultra III (TD) samples were received on March 16, 2012. The laboratory transferred the sample sorbent bed and the associated blank sorbent bed each to separate thermal desorption tubes. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The actual exposure time and temperature were used to calculate sample concentrations and reporting limits. An exposure time of 12,701 minutes and a temperature of 55.8 F was used to calculate concentrations and reporting limits for the associated Lab Blank.

The recovery of surrogate 4-Bromofluorobenzene in sample OAP-NIC-EMPARK-030612 was outside the laboratory limits of 70-130%.

The recovery of internal standard Chlorobenzene-d5 in sample OAP-NIC-1402ARNOLD-030612 was outside control limits. Data is reported as qualified.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded acceptance limits for Vinyl Chloride, Carbon Tetrachloride and Toluene.

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

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Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-EMPARK-030612

Lab ID#: 1203345-01A/01B

Collection Date: 03/15/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.028	Not Detected	0.016	0.028	
1,2-Dichloroethane	0.046	Not Detected	0.012	0.046	
2-Butanone (Methyl Ethyl Ketone)	0.33	Not Detected	0.29	0.33	J
Acetone	0.61	0.21	0.26	0.40	
Benzene	1.5	0.71	0.17	0.79	
Carbon Tetrachloride	0.048	Not Detected	0.018	0.048	
Chloroform	0.027	Not Detected	0.015	0.027	
Cyclohexane	0.37	Not Detected	0.091	0.37	
Ethyl Benzene	0.43	0.050	0.028	0.38	
Heptane	0.52	Not Detected	0.12	0.52	
Hexane	1.5	Not Detected	0.10	1.5	
m,p-Xylene	1.7	0.14	0.028	1.6	
Methylene Chloride	0.25	0.62	0.40	Not Detected	
o-Xylene	0.77	0.035	0.030	0.74	
Tetrachloroethene	0.16	Not Detected	0.026	0.16	
Toluene	2.9	0.12	0.046	2.8	
Trichloroethene	0.065	Not Detected	0.015	0.065	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1402ARNOLD-030612

Lab ID#: 1203345-02A/02B

Collection Date: 03/15/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.036	Not Detected	0.016	0.036	
1,2-Dichloroethane	0.065	Not Detected	0.012	0.065	
2-Butanone (Methyl Ethyl Ketone)	0.39	Not Detected	0.29	0.39	J
Acetone	0.70	Not Detected	0.13	0.70	
Benzene	1.5	1.0	0.17	0.50	
Carbon Tetrachloride	0.073	Not Detected	0.018	0.073	
Chloroform	0.034	Not Detected	0.015	0.034	
Cyclohexane	0.49	Not Detected	0.091	0.49	
Ethyl Benzene	0.48	Not Detected	0.014	0.48	J
Heptane	0.77	Not Detected	0.12	0.77	
Hexane	2.0	Not Detected	0.10	2.0	
m,p-Xylene	1.6	0.017	0.028	1.6	J
Methylene Chloride	Not Detected	0.41	0.40	Not Detected	
o-Xylene	0.68	Not Detected	0.015	0.68	J
Tetrachloroethene	0.11	Not Detected	0.026	0.11	J
Toluene	2.5	0.041	0.046	2.4	J
Trichloroethene	0.066	Not Detected	0.015	0.066	J

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-1402ARNOLDQ-030612

Lab ID#: 1203345-03A/03B

Collection Date: 03/15/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.022	Not Detected	0.016	0.022	
1,2-Dichloroethane	0.040	Not Detected	0.012	0.040	
2-Butanone (Methyl Ethyl Ketone)	0.34	Not Detected	0.29	0.34	J
Acetone	0.54	0.16	0.26	0.38	
Benzene	1.2	0.55	0.17	0.65	
Carbon Tetrachloride	0.034	Not Detected	0.018	0.034	
Chloroform	0.023	Not Detected	0.015	0.023	
Cyclohexane	0.42	Not Detected	0.091	0.42	
Ethyl Benzene	0.40	0.051	0.028	0.35	
Heptane	0.54	Not Detected	0.12	0.54	
Hexane	2.2	0.18	0.20	2.0	
m,p-Xylene	1.4	0.12	0.028	1.3	
Methylene Chloride	0.26	0.33	0.40	Not Detected	
o-Xylene	0.62	0.038	0.030	0.58	
Tetrachloroethene	0.082	Not Detected	0.026	0.082	
Toluene	2.2	0.12	0.046	2.1	
Trichloroethene	0.031	Not Detected	0.015	0.031	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-DUNPARK-030612

Lab ID#: 1203345-04A/04B

Collection Date: 03/15/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.022	Not Detected	0.016	0.022	
1,2-Dichloroethane	0.038	Not Detected	0.012	0.038	
Acetone	0.62	0.18	0.26	0.44	
Benzene	1.3	0.58	0.17	0.72	
Carbon Tetrachloride	0.027	Not Detected	0.018	0.027	
Cyclohexane	0.35	Not Detected	0.092	0.35	
Ethyl Benzene	0.35	0.048	0.028	0.30	
Heptane	0.50	Not Detected	0.12	0.50	
Hexane	2.9	0.12	0.20	2.8	
m,p-Xylene	1.1	0.12	0.030	0.98	
Methylene Chloride	0.20	0.37	0.40	Not Detected	
o-Xylene	0.53	0.041	0.032	0.49	
Tetrachloroethene	0.12	Not Detected	0.026	0.12	
Toluene	2.1	0.12	0.046	2.0	
Trichloroethene	0.047	Not Detected	0.015	0.047	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-717MATH-030612

Lab ID#: 1203345-05A/05B

Collection Date: 03/15/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.030	Not Detected	0.016	0.030	
1,2-Dichloroethane	0.048	Not Detected	0.012	0.048	
2-Butanone (Methyl Ethyl Ketone)	0.39	Not Detected	0.29	0.39	J
Acetone	0.69	0.26	0.26	0.43	
Benzene	1.5	0.78	0.17	0.72	
Carbon Tetrachloride	0.033	Not Detected	0.018	0.033	
Chloroform	0.025	Not Detected	0.016	0.025	
Cyclohexane	0.38	Not Detected	0.092	0.38	
Ethyl Benzene	0.38	0.053	0.028	0.33	
Heptane	0.60	Not Detected	0.12	0.60	
Hexane	2.0	0.12	0.22	1.9	
m,p-Xylene	1.3	0.13	0.030	1.2	
Methylene Chloride	0.31	0.40	0.40	Not Detected	
o-Xylene	0.67	0.044	0.032	0.63	
Tetrachloroethene	0.15	Not Detected	0.026	0.15	
Toluene	2.4	0.12	0.046	2.3	
Trichloroethene	0.051	Not Detected	0.015	0.051	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Adjusted Concentrations - Detected Target Compounds Only
VOCs By PASSIVE SAMPLER - GC/MS

Client Sample ID: OAP-NIC-UMC-030612

Lab ID#: 1203345-06A/06B

Collection Date: 03/15/2012

	Concentration Results (ug/m3)				
Compound Name	**Raw Amt**	**Blank Amt**	**Adjusted RL+**	**Adjusted Amt**	**Flag**
1,1,1-Trichloroethane	0.018	Not Detected	0.016	0.018	
1,2-Dichloroethane	0.038	Not Detected	0.012	0.038	
2-Butanone (Methyl Ethyl Ketone)	0.46	Not Detected	0.29	0.46	J
Acetone	0.70	0.19	0.26	0.51	
Benzene	1.1	0.56	0.17	0.54	
Carbon Tetrachloride	0.021	Not Detected	0.018	0.021	
Cyclohexane	0.30	Not Detected	0.092	0.30	
Ethyl Benzene	0.30	0.053	0.028	0.25	
Heptane	0.44	Not Detected	0.12	0.44	
Hexane	1.3	0.12	0.20	1.2	
m,p-Xylene	0.95	0.13	0.030	0.82	
Methylene Chloride	0.22	0.38	0.40	Not Detected	
o-Xylene	0.43	0.044	0.032	0.39	
Tetrachloroethene	0.068	Not Detected	0.026	0.068	
Toluene	1.9	0.14	0.046	1.8	
Trichloroethene	0.036	Not Detected	0.015	0.036	

+Adjusted RL = 2 x Analytical RL if compound is detected in the sorbent blank.
C = Estimated concentration due to calculated sampling rate.

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-EMPARK-030612

Lab ID#: 1203345-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	110	0.61
Methylene Chloride	35	0.20	44	0.25
Hexane	18	0.10	260	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.29	66 J	0.33 J
Chloroform	2.4	0.015	4.2	0.027
1,1,1-Trichloroethane	2.7	0.016	4.8	0.028
Cyclohexane	17	0.091	69	0.37
Carbon Tetrachloride	3.1	0.018	8.0	0.048
Benzene	16	0.084	290	1.5
1,2-Dichloroethane	2.0	0.012	7.8	0.046
Heptane	20	0.12	87	0.52
Trichloroethene	2.7	0.015	12	0.065
Toluene	4.0	0.023	500	2.9
Tetrachloroethene	4.0	0.026	26	0.16
Ethyl Benzene	2.2	0.014	67	0.43
m,p-Xylene	2.2	0.014	250	1.7
o-Xylene	2.2	0.015	110	0.77

Client Sample ID: OAP-NIC-EMPARK-030612 Blank

Lab ID#: 1203345-01B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	38	0.21
Methylene Chloride	35	0.20	110	0.62
Benzene	16	0.084	140	0.71
Toluene	4.0	0.023	22	0.12
Ethyl Benzene	2.2	0.014	7.7	0.050
m,p-Xylene	2.2	0.014	22	0.14
o-Xylene	2.2	0.015	5.0	0.035

Client Sample ID: OAP-NIC-1402ARNOLD-030612

Lab ID#: 1203345-02A

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1402ARNOLD-030612

Lab ID#: 1203345-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	130	0.70
Hexane	18	0.10	340	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.29	78 J	0.39 J
Chloroform	2.4	0.015	5.3	0.034
1,1,1-Trichloroethane	2.7	0.016	6.1	0.036
Cyclohexane	17	0.091	91	0.49
Carbon Tetrachloride	3.1	0.018	12	0.073
Benzene	16	0.084	300	1.5
1,2-Dichloroethane	2.0	0.012	11	0.065
Heptane	20	0.12	130	0.77
Trichloroethene	2.7	0.015	12 J	0.066 J
Toluene	4.0	0.023	430 J	2.5 J
Tetrachloroethene	4.0	0.026	18 J	0.11 J
Ethyl Benzene	2.2	0.014	73 J	0.48 J
m,p-Xylene	2.2	0.014	240 J	1.6 J
o-Xylene	2.2	0.015	96 J	0.68 J

Client Sample ID: OAP-NIC-1402ARNOLD-030612 Blank

Lab ID#: 1203345-02B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Methylene Chloride	35	0.20	72	0.41
Benzene	16	0.084	200	1.0
Toluene	4.0	0.023	7.1	0.041
m,p-Xylene	2.2	0.014	2.6	0.017

Client Sample ID: OAP-NIC-1402ARNOLDQ-030612

Lab ID#: 1203345-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	98	0.54
Methylene Chloride	35	0.20	46	0.26
Hexane	18	0.10	380	2.2

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-1402ARNOLDQ-030612

Lab ID#: 1203345-03A

2-Butanone (Methyl Ethyl Ketone)	59	0.29	68 J	0.34 J
Chloroform	2.4	0.015	3.6	0.023
1,1,1-Trichloroethane	2.7	0.016	3.7	0.022
Cyclohexane	17	0.091	78	0.42
Carbon Tetrachloride	3.1	0.018	5.7	0.034
Benzene	16	0.084	240	1.2
1,2-Dichloroethane	2.0	0.012	6.7	0.040
Heptane	20	0.12	89	0.54
Trichloroethene	2.7	0.015	5.5	0.031
Toluene	4.0	0.023	380	2.2
Tetrachloroethene	4.0	0.026	13	0.082
Ethyl Benzene	2.2	0.014	62	0.40
m,p-Xylene	2.2	0.014	210	1.4
o-Xylene	2.2	0.015	88	0.62

Client Sample ID: OAP-NIC-1402ARNOLDQ-030612 Blank

Lab ID#: 1203345-03B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	29	0.16
Methylene Chloride	35	0.20	58	0.33
Hexane	18	0.10	31	0.18
Benzene	16	0.084	110	0.55
Toluene	4.0	0.023	20	0.12
Ethyl Benzene	2.2	0.014	7.8	0.051
m,p-Xylene	2.2	0.014	18	0.12
o-Xylene	2.2	0.015	5.4	0.038

Client Sample ID: OAP-NIC-DUNPARK-030612

Lab ID#: 1203345-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	110	0.62
Methylene Chloride	35	0.20	35	0.20

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-DUNPARK-030612

Lab ID#: 1203345-04A

Hexane	18	0.10	490	2.9
1,1,1-Trichloroethane	2.7	0.016	3.7	0.022
Cyclohexane	17	0.092	66	0.35
Carbon Tetrachloride	3.1	0.018	4.5	0.027
Benzene	16	0.084	250	1.3
1,2-Dichloroethane	2.0	0.012	6.4	0.038
Heptane	20	0.12	83	0.50
Trichloroethene	2.7	0.015	8.4	0.047
Toluene	4.0	0.023	360	2.1
Tetrachloroethene	4.0	0.026	19	0.12
Ethyl Benzene	2.2	0.014	54	0.35
m,p-Xylene	2.2	0.015	170	1.1
o-Xylene	2.2	0.016	75	0.53

Client Sample ID: OAP-NIC-DUNPARK-030612 Blank

Lab ID#: 1203345-04B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	33	0.18
Methylene Chloride	35	0.20	64	0.37
Hexane	18	0.10	20	0.12
Benzene	16	0.084	110	0.58
Toluene	4.0	0.023	21	0.12
Ethyl Benzene	2.2	0.014	7.4	0.048
m,p-Xylene	2.2	0.015	19	0.12
o-Xylene	2.2	0.016	5.8	0.041

Client Sample ID: OAP-NIC-717MATH-030612

Lab ID#: 1203345-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	120	0.69
Methylene Chloride	35	0.20	54	0.31
Hexane	18	0.11	340	2.0

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-717MATH-030612

Lab ID#: 1203345-05A

2-Butanone (Methyl Ethyl Ketone)	59	0.29	78 J	0.39 J
Chloroform	2.4	0.016	3.9	0.025
1,1,1-Trichloroethane	2.7	0.016	5.0	0.030
Cyclohexane	17	0.092	71	0.38
Carbon Tetrachloride	3.1	0.018	5.6	0.033
Benzene	16	0.084	280	1.5
1,2-Dichloroethane	2.0	0.012	8.1	0.048
Heptane	20	0.12	100	0.60
Trichloroethene	2.7	0.015	9.0	0.051
Toluene	4.0	0.023	420	2.4
Tetrachloroethene	4.0	0.026	24	0.15
Ethyl Benzene	2.2	0.014	59	0.38
m,p-Xylene	2.2	0.015	190	1.3
o-Xylene	2.2	0.016	94	0.67

Client Sample ID: OAP-NIC-717MATH-030612 Blank

Lab ID#: 1203345-05B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	47	0.26
Methylene Chloride	35	0.20	69	0.40
Hexane	18	0.11	20	0.12
Benzene	16	0.084	150	0.78
Toluene	4.0	0.023	22	0.12
Ethyl Benzene	2.2	0.014	8.1	0.053
m,p-Xylene	2.2	0.015	20	0.13
o-Xylene	2.2	0.016	6.2	0.044

Client Sample ID: OAP-NIC-UMC-030612

Lab ID#: 1203345-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	130	0.70
Methylene Chloride	35	0.20	39	0.22

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Summary of Detected Compounds
VOC BY PASSIVE SAMPLER

Client Sample ID: OAP-NIC-UMC-030612

Lab ID#: 1203345-06A

Hexane	18	0.10	220	1.3
2-Butanone (Methyl Ethyl Ketone)	59	0.29	92 J	0.46 J
1,1,1-Trichloroethane	2.7	0.016	3.1	0.018
Cyclohexane	17	0.092	57	0.30
Carbon Tetrachloride	3.1	0.018	3.6	0.021
Benzene	16	0.084	220	1.1
1,2-Dichloroethane	2.0	0.012	6.4	0.038
Heptane	20	0.12	74	0.44
Trichloroethene	2.7	0.015	6.4	0.036
Toluene	4.0	0.023	340	1.9
Tetrachloroethene	4.0	0.026	11	0.068
Ethyl Benzene	2.2	0.014	46	0.30
m,p-Xylene	2.2	0.015	140	0.95
o-Xylene	2.2	0.016	60	0.43

Client Sample ID: OAP-NIC-UMC-030612 Blank

Lab ID#: 1203345-06B

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Acetone	24	0.13	34	0.19
Methylene Chloride	35	0.20	66	0.38
Hexane	18	0.10	21	0.12
Benzene	16	0.084	110	0.56
Toluene	4.0	0.023	24	0.14
Ethyl Benzene	2.2	0.014	8.2	0.053
m,p-Xylene	2.2	0.015	20	0.13
o-Xylene	2.2	0.016	6.3	0.044

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Client Sample ID: OAP-NIC-EMPARK-030612

Lab ID#: 1203345-01A

VOC BY PASSIVE SAMPLER

File Name:	**6031558**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:13:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 05:39 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	110	0.61
Methylene Chloride	35	0.20	44	0.25
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	260	1.5
2-Butanone (Methyl Ethyl Ketone)	59	0.29	66 J	0.33 J
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	4.2	0.027
1,1,1-Trichloroethane	2.7	0.016	4.8	0.028
Cyclohexane	17	0.091	69	0.37
Carbon Tetrachloride	3.1	0.018	8.0	0.048
Benzene	16	0.084	290	1.5
1,2-Dichloroethane	2.0	0.012	7.8	0.046
Heptane	20	0.12	87	0.52
Trichloroethene	2.7	0.015	12	0.065
Toluene	4.0	0.023	500	2.9
Tetrachloroethene	4.0	0.026	26	0.16
Ethyl Benzene	2.2	0.014	67	0.43
m,p-Xylene	2.2	0.014	250	1.7
o-Xylene	2.2	0.015	110	0.77
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
J = Estimated value due to bias in the CCV.
Q = Exceeds Quality Control limits.

Temperature = 55.4F , duration time = 12701 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	136 Q	70-130

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Client Sample ID: OAP-NIC-EMPARK-030612 Blank

Lab ID#: 1203345-01B

VOC BY PASSIVE SAMPLER

File Name:	**6031557**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:13:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 05:07 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	38	0.21
Methylene Chloride	35	0.20	110	0.62
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	Not Detected	Not Detected
Cyclohexane	17	0.091	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.018	Not Detected	Not Detected
Benzene	16	0.084	140	0.71
1,2-Dichloroethane	2.0	0.012	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.023	22	0.12
Tetrachloroethene	4.0	0.026	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	7.7	0.050
m,p-Xylene	2.2	0.014	22	0.14
o-Xylene	2.2	0.015	5.0	0.035
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12701 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	75	70-130

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Client Sample ID: OAP-NIC-1402ARNOLD-030612

Lab ID#: 1203345-02A

VOC BY PASSIVE SAMPLER

File Name:	**6031560**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:18:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 06:44 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	130	0.70
Methylene Chloride	35	0.20	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	340	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.29	78 J	0.39 J
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	5.3	0.034
1,1,1-Trichloroethane	2.7	0.016	6.1	0.036
Cyclohexane	17	0.091	91	0.49
Carbon Tetrachloride	3.1	0.018	12	0.073
Benzene	16	0.084	300	1.5
1,2-Dichloroethane	2.0	0.012	11	0.065
Heptane	20	0.12	130	0.77
Trichloroethene	2.7	0.015	12 J	0.066 J
Toluene	4.0	0.023	430 J	2.5 J
Tetrachloroethene	4.0	0.026	18 J	0.11 J
Ethyl Benzene	2.2	0.014	73 J	0.48 J
m,p-Xylene	2.2	0.014	240 J	1.6 J
o-Xylene	2.2	0.015	96 J	0.68 J
1,1-Dichloroethane	2.0	0.014	Not Detected CJ	Not Detected CJ

C = Estimated concentration due to calculated sampling rate.
J = Estimated value due to bias in the CCV.

Temperature = 55.4F , duration time = 12697 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98 J	70-130

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Client Sample ID: OAP-NIC-1402ARNOLD-030612 Blank

Lab ID#: 1203345-02B

VOC BY PASSIVE SAMPLER

File Name:	**6031559**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:18:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 06:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	Not Detected	Not Detected
Methylene Chloride	35	0.20	72	0.41
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	Not Detected	Not Detected
Cyclohexane	17	0.091	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.018	Not Detected	Not Detected
Benzene	16	0.084	200	1.0
1,2-Dichloroethane	2.0	0.012	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.023	7.1	0.041
Tetrachloroethene	4.0	0.026	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	Not Detected	Not Detected
m,p-Xylene	2.2	0.014	2.6	0.017
o-Xylene	2.2	0.015	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12697 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

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Client Sample ID: OAP-NIC-1402ARNOLDQ-030612

Lab ID#: 1203345-03A

VOC BY PASSIVE SAMPLER

File Name:	**6031562**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:18:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 07:49 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	98	0.54
Methylene Chloride	35	0.20	46	0.26
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	380	2.2
2-Butanone (Methyl Ethyl Ketone)	59	0.29	68 J	0.34 J
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	3.6	0.023
1,1,1-Trichloroethane	2.7	0.016	3.7	0.022
Cyclohexane	17	0.091	78	0.42
Carbon Tetrachloride	3.1	0.018	5.7	0.034
Benzene	16	0.084	240	1.2
1,2-Dichloroethane	2.0	0.012	6.7	0.040
Heptane	20	0.12	89	0.54
Trichloroethene	2.7	0.015	5.5	0.031
Toluene	4.0	0.023	380	2.2
Tetrachloroethene	4.0	0.026	13	0.082
Ethyl Benzene	2.2	0.014	62	0.40
m,p-Xylene	2.2	0.014	210	1.4
o-Xylene	2.2	0.015	88	0.62
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
J = Estimated value due to bias in the CCV.

Temperature = 55.4F , duration time = 12697 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	90	70-130

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Client Sample ID: OAP-NIC-1402ARNOLDQ-030612 Blank

Lab ID#: 1203345-03B

VOC BY PASSIVE SAMPLER

File Name:	**6031561**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:18:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 07:16 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	29	0.16
Methylene Chloride	35	0.20	58	0.33
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	31	0.18
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	Not Detected	Not Detected
Cyclohexane	17	0.091	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.018	Not Detected	Not Detected
Benzene	16	0.084	110	0.55
1,2-Dichloroethane	2.0	0.012	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.023	20	0.12
Tetrachloroethene	4.0	0.026	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	7.8	0.051
m,p-Xylene	2.2	0.014	18	0.12
o-Xylene	2.2	0.015	5.4	0.038
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12697 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	95	70-130

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Client Sample ID: OAP-NIC-DUNPARK-030612

Lab ID#: 1203345-04A

VOC BY PASSIVE SAMPLER

File Name:	**6031564**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:09:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 08:55 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	110	0.62
Methylene Chloride	35	0.20	35	0.20
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	490	2.9
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.016	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	3.7	0.022
Cyclohexane	17	0.092	66	0.35
Carbon Tetrachloride	3.1	0.018	4.5	0.027
Benzene	16	0.084	250	1.3
1,2-Dichloroethane	2.0	0.012	6.4	0.038
Heptane	20	0.12	83	0.50
Trichloroethene	2.7	0.015	8.4	0.047
Toluene	4.0	0.023	360	2.1
Tetrachloroethene	4.0	0.026	19	0.12
Ethyl Benzene	2.2	0.014	54	0.35
m,p-Xylene	2.2	0.015	170	1.1
o-Xylene	2.2	0.016	75	0.53
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12666 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

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Client Sample ID: OAP-NIC-DUNPARK-030612 Blank

Lab ID#: 1203345-04B

VOC BY PASSIVE SAMPLER

File Name:	**6031563**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:09:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 08:22 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	33	0.18
Methylene Chloride	35	0.20	64	0.37
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	20	0.12
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.016	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	Not Detected	Not Detected
Cyclohexane	17	0.092	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.018	Not Detected	Not Detected
Benzene	16	0.084	110	0.58
1,2-Dichloroethane	2.0	0.012	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.023	21	0.12
Tetrachloroethene	4.0	0.026	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	7.4	0.048
m,p-Xylene	2.2	0.015	19	0.12
o-Xylene	2.2	0.016	5.8	0.041
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12666 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

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Client Sample ID: OAP-NIC-717MATH-030612

Lab ID#: 1203345-05A

VOC BY PASSIVE SAMPLER

File Name:	**6031566**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 10:00 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0052	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	120	0.69
Methylene Chloride	35	0.20	54	0.31
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.11	340	2.0
2-Butanone (Methyl Ethyl Ketone)	59	0.29	78 J	0.39 J
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.016	3.9	0.025
1,1,1-Trichloroethane	2.7	0.016	5.0	0.030
Cyclohexane	17	0.092	71	0.38
Carbon Tetrachloride	3.1	0.018	5.6	0.033
Benzene	16	0.084	280	1.5
1,2-Dichloroethane	2.0	0.012	8.1	0.048
Heptane	20	0.12	100	0.60
Trichloroethene	2.7	0.015	9.0	0.051
Toluene	4.0	0.023	420	2.4
Tetrachloroethene	4.0	0.026	24	0.15
Ethyl Benzene	2.2	0.014	59	0.38
m,p-Xylene	2.2	0.015	190	1.3
o-Xylene	2.2	0.016	94	0.67
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
J = Estimated value due to bias in the CCV.

Temperature = 55.4F , duration time = 12629 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

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Client Sample ID: OAP-NIC-717MATH-030612 Blank

Lab ID#: 1203345-05B

VOC BY PASSIVE SAMPLER

File Name:	**6031565**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 09:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0052	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	47	0.26
Methylene Chloride	35	0.20	69	0.40
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.11	20	0.12
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.016	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	Not Detected	Not Detected
Cyclohexane	17	0.092	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.018	Not Detected	Not Detected
Benzene	16	0.084	150	0.78
1,2-Dichloroethane	2.0	0.012	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.023	22	0.12
Tetrachloroethene	4.0	0.026	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	8.1	0.053
m,p-Xylene	2.2	0.015	20	0.13
o-Xylene	2.2	0.016	6.2	0.044
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12629 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

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Client Sample ID: OAP-NIC-UMC-030612

Lab ID#: 1203345-06A

VOC BY PASSIVE SAMPLER

File Name:	**6031568**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:28:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 11:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0052	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	130	0.70
Methylene Chloride	35	0.20	39	0.22
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	220	1.3
2-Butanone (Methyl Ethyl Ketone)	59	0.29	92 J	0.46 J
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.016	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	3.1	0.018
Cyclohexane	17	0.092	57	0.30
Carbon Tetrachloride	3.1	0.018	3.6	0.021
Benzene	16	0.084	220	1.1
1,2-Dichloroethane	2.0	0.012	6.4	0.038
Heptane	20	0.12	74	0.44
Trichloroethene	2.7	0.015	6.4	0.036
Toluene	4.0	0.023	340	1.9
Tetrachloroethene	4.0	0.026	11	0.068
Ethyl Benzene	2.2	0.014	46	0.30
m,p-Xylene	2.2	0.015	140	0.95
o-Xylene	2.2	0.016	60	0.43
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
J = Estimated value due to bias in the CCV.

Temperature = 55.4F , duration time = 12647 minutes.
Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

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Client Sample ID: OAP-NIC-UMC-030612 Blank

Lab ID#: 1203345-06B

VOC BY PASSIVE SAMPLER

File Name:	**6031567**	**Date of Extraction: NA**	**Date of Collection: 3/15/12 11:28:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 10:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0052	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	34	0.19
Methylene Chloride	35	0.20	66	0.38
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	21	0.12
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.016	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	Not Detected	Not Detected
Cyclohexane	17	0.092	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.018	Not Detected	Not Detected
Benzene	16	0.084	110	0.56
1,2-Dichloroethane	2.0	0.012	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.023	24	0.14
Tetrachloroethene	4.0	0.026	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	8.2	0.053
m,p-Xylene	2.2	0.015	20	0.13
o-Xylene	2.2	0.016	6.3	0.044
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12647 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203345-07A

VOC BY PASSIVE SAMPLER

File Name:	**6031556**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 04:07 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Vinyl Chloride	1.3	0.0051	Not Detected C	Not Detected C
1,1-Dichloroethene	2.0	0.014	Not Detected	Not Detected
Acetone	24	0.13	Not Detected	Not Detected
Methylene Chloride	35	0.20	Not Detected	Not Detected
Methyl tert-butyl ether	18	0.11	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Hexane	18	0.10	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	0.29	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.0	0.011	Not Detected	Not Detected
Chloroform	2.4	0.015	Not Detected	Not Detected
1,1,1-Trichloroethane	2.7	0.016	Not Detected	Not Detected
Cyclohexane	17	0.091	Not Detected	Not Detected
Carbon Tetrachloride	3.1	0.018	Not Detected	Not Detected
Benzene	16	0.084	Not Detected	Not Detected
1,2-Dichloroethane	2.0	0.012	Not Detected	Not Detected
Heptane	20	0.12	Not Detected	Not Detected
Trichloroethene	2.7	0.015	Not Detected	Not Detected
Toluene	4.0	0.023	Not Detected	Not Detected
Tetrachloroethene	4.0	0.026	Not Detected	Not Detected
Ethyl Benzene	2.2	0.014	Not Detected	Not Detected
m,p-Xylene	2.2	0.014	Not Detected	Not Detected
o-Xylene	2.2	0.015	Not Detected	Not Detected
1,1-Dichloroethane	2.0	0.014	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 55.4F , duration time = 12701 minutes.

Container Type: Ultra III (TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1203345-08A

VOC BY PASSIVE SAMPLER

File Name:	**6031551**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 01:29 PM**

Compound	**%Recovery**
Vinyl Chloride	80
1,1-Dichloroethene	94
Acetone	109
Methylene Chloride	106
Methyl tert-butyl ether	129
trans-1,2-Dichloroethene	99
Hexane	96
2-Butanone (Methyl Ethyl Ketone)	139 Q
cis-1,2-Dichloroethene	98
Chloroform	100
1,1,1-Trichloroethane	106
Cyclohexane	93
Carbon Tetrachloride	113
Benzene	97
1,2-Dichloroethane	106
Heptane	97
Trichloroethene	89
Toluene	94
Tetrachloroethene	109
Ethyl Benzene	106
m,p-Xylene	101
o-Xylene	98
1,1-Dichloroethane	118

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	90	70-130

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Client Sample ID: LCS

Lab ID#: 1203345-09A

VOC BY PASSIVE SAMPLER

File Name:	**6031555**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 03:38 PM**

Compound	**%Recovery**
Vinyl Chloride	122
1,1-Dichloroethene	95
Acetone	115
Methylene Chloride	109
Methyl tert-butyl ether	161 Q
trans-1,2-Dichloroethene	111
Hexane	98
2-Butanone (Methyl Ethyl Ketone)	154 Q
cis-1,2-Dichloroethene	94
Chloroform	106
1,1,1-Trichloroethane	125
Cyclohexane	95
Carbon Tetrachloride	121
Benzene	99
1,2-Dichloroethane	111
Heptane	97
Trichloroethene	118
Toluene	87
Tetrachloroethene	104
Ethyl Benzene	96
m,p-Xylene	93
o-Xylene	96
1,1-Dichloroethane	125

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1203345-09AA

VOC BY PASSIVE SAMPLER

File Name:	**6031553**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/16/12 02:30 PM**

Compound	**%Recovery**
Vinyl Chloride	83
1,1-Dichloroethene	102
Acetone	126
Methylene Chloride	110
Methyl tert-butyl ether	160 Q
trans-1,2-Dichloroethene	116
Hexane	95
2-Butanone (Methyl Ethyl Ketone)	142 Q
cis-1,2-Dichloroethene	102
Chloroform	99
1,1,1-Trichloroethane	114
Cyclohexane	96
Carbon Tetrachloride	66 Q
Benzene	106
1,2-Dichloroethane	107
Heptane	96
Trichloroethene	132 Q
Toluene	113
Tetrachloroethene	124
Ethyl Benzene	103
m,p-Xylene	99
o-Xylene	101
1,1-Dichloroethane	123

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	101	70-130

PASSIVE SAMPLE COLLECTION

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.

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

Project Manager: Kevin Rood (Unocal : Attn Monica Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith Email: martinbj@cdmsmith.com williamsmk@cdmsmith.com
Address: 345 River Park, Ste 520 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-264-5025

Project Info:
P.O. #:
Project #: 2395-867004
Project Name: NK Sitewide VI

Turn Around Time: ☒ Normal ☐ Rush ____ specify

Reporting Units: ☐ ppmv ☐ ppbv ☐ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	OAP-NIC-EMPARK-030612		03/06/12	1532	03/16/12	1113	TO-17	☐	☒	☐	☐
02A	OAP-NIC-1402 ARNOLD-030612		03/06/12	1541	03/16/12	1118	TO-17	☐	☒	☐	☐
03A	OAP-NIC-1402 ARNOLD-030612		03/06/12	1541	03/16/12	1118	TO-17	☐	☒	☐	☐
04A	OAP-NIC-DUNPARK-030612		03/06/12	1603	03/16/12	1109	TO-17	☐	☒	☐	☐
05A	OAP-NIC-717MATH-030612		03/06/12	1631	03/15/12	1100	TO-17	☐	☒	☐	☐
06A	OAP-NIC-GMC-030612		03/06/12	1641	03/15/12	1128	TO-17	☐	☒	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/15/12 1340	B. Whitlock ATL	3/16/12 0900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex	7933 4282 9848	N/A	Good	(Yes) No None	1203345

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3/28/2012
Ms. Monica Williams
CDM Smith Inc.
345 Riverview
Suite 520
Wichita KS 67203

Project Name: NIC Site-wide VI
Project #: 2395-88707
Workorder #: 1203364

Dear Ms. Monica Williams

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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1203364

Work Order Summary

CLIENT:	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203	**BILL TO:**	Ms. Monica Williams CDM Smith Inc. 345 Riverview Suite 520 Wichita, KS 67203
PHONE:	316-660-6700	**P.O. #**	
FAX:	316-264-3025	**PROJECT #**	2395-88707 NIC Site-wide VI
DATE RECEIVED:	03/16/2012	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/28/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IAS-NIC-717MATH-LVR-031312	Modified TO-15	8.4 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 03/28/12

Certfication 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
CDM Smith Inc.
Workorder# 1203364

One 6 Liter Summa Canister (100% Certified) sample was 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.

Requirement	***TO-15***	***ATL Modifications***
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

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

Client Sample ID: IAS-NIC-717MATH-LVR-031312

Lab ID#: 1203364-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.49	0.92	2.4
Chloromethane	0.19	0.77	0.38	1.6
1,3-Butadiene	0.19	0.41	0.41	0.91
Freon 11	0.19	0.20	1.0	1.2
Ethanol	0.93	73	1.8	140
Acetone	0.93	240 E	2.2	570 E
2-Propanol	0.93	13	2.3	33
Hexane	0.19	0.28	0.66	1.0
Benzene	0.19	0.44	0.59	1.4
Toluene	0.19	1.2	0.70	4.5

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Client Sample ID: IAS-NIC-717MATH-LVR-031312

Lab ID#: 1203364-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031708**	**Date of Collection:**	**3/14/12 11:00:00 AM**
Dil. Factor:	**1.86**	**Date of Analysis:**	**3/17/12 12:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.49	0.92	2.4
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.19	0.77	0.38	1.6
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,3-Butadiene	0.19	0.41	0.41	0.91
Bromomethane	0.19	Not Detected	0.72	Not Detected
Chloroethane	0.93	Not Detected	2.4	Not Detected
Freon 11	0.19	0.20	1.0	1.2
Ethanol	0.93	73	1.8	140
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Acetone	0.93	240 E	2.2	570 E
2-Propanol	0.93	13	2.3	33
Carbon Disulfide	0.93	Not Detected	2.9	Not Detected
3-Chloropropene	0.93	Not Detected	2.9	Not Detected
Methylene Chloride	0.37	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.67	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Hexane	0.19	0.28	0.66	1.0
1,1-Dichloroethane	0.19	Not Detected	0.75	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.93	Not Detected	2.7	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Tetrahydrofuran	0.93	Not Detected	2.7	Not Detected
Chloroform	0.19	Not Detected	0.91	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	Not Detected	0.64	Not Detected
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.93	Not Detected	4.3	Not Detected
Benzene	0.19	0.44	0.59	1.4
1,2-Dichloroethane	0.19	Not Detected	0.75	Not Detected
Heptane	0.19	Not Detected	0.76	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.86	Not Detected
1,4-Dioxane	0.19	Not Detected	0.67	Not Detected
Bromodichloromethane	0.19	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.84	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.76	Not Detected
Toluene	0.19	1.2	0.70	4.5
trans-1,3-Dichloropropene	0.19	Not Detected	0.84	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.93	Not Detected	3.8	Not Detected

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Client Sample ID: IAS-NIC-717MATH-LVR-031312

Lab ID#: 1203364-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031708**	**Date of Collection:**	**3/14/12 11:00:00 AM**
Dil. Factor:	**1.86**	**Date of Analysis:**	**3/17/12 12:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.4	Not Detected
Chlorobenzene	0.19	Not Detected	0.86	Not Detected
Ethyl Benzene	0.19	Not Detected	0.81	Not Detected
m,p-Xylene	0.19	Not Detected	0.81	Not Detected
o-Xylene	0.19	Not Detected	0.81	Not Detected
Styrene	0.19	Not Detected	0.79	Not Detected
Bromoform	0.19	Not Detected	1.9	Not Detected
Cumene	0.19	Not Detected	0.91	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.91	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.91	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.91	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.91	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.96	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.93	Not Detected	6.9	Not Detected
Hexachlorobutadiene	0.93	Not Detected	9.9	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1203364-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 11:23 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1203364-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 11:23 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1203364-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:02 AM**	

Compound	**%Recovery**
Freon 12	93
Freon 114	89
Chloromethane	79
Vinyl Chloride	87
1,3-Butadiene	85
Bromomethane	104
Chloroethane	87
Freon 11	91
Ethanol	95
Freon 113	88
1,1-Dichloroethene	84
Acetone	89
2-Propanol	90
Carbon Disulfide	91
3-Chloropropene	98
Methylene Chloride	81
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	85
Hexane	88
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	86
Tetrahydrofuran	98
Chloroform	89
1,1,1-Trichloroethane	90
Cyclohexane	86
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	87
Benzene	89
1,2-Dichloroethane	97
Heptane	91
Trichloroethene	94
1,2-Dichloropropane	91
1,4-Dioxane	86
Bromodichloromethane	96
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	94
Toluene	87
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	92
Tetrachloroethene	92
2-Hexanone	86

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Client Sample ID: CCV

Lab ID#: 1203364-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:02 AM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	94
Chlorobenzene	90
Ethyl Benzene	87
m,p-Xylene	88
o-Xylene	89
Styrene	82
Bromoform	110
Cumene	88
1,1,2,2-Tetrachloroethane	92
Propylbenzene	86
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	94

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

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1203364-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:47 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	90
Chloromethane	84
Vinyl Chloride	92
1,3-Butadiene	88
Bromomethane	104
Chloroethane	88
Freon 11	92
Ethanol	91
Freon 113	91
1,1-Dichloroethene	91
Acetone	88
2-Propanol	92
Carbon Disulfide	112
3-Chloropropene	121
Methylene Chloride	84
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	99
Hexane	89
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	90
Tetrahydrofuran	96
Chloroform	92
1,1,1-Trichloroethane	94
Cyclohexane	87
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	82
Benzene	90
1,2-Dichloroethane	97
Heptane	91
Trichloroethene	92
1,2-Dichloropropane	92
1,4-Dioxane	85
Bromodichloromethane	96
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	95
Toluene	88
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	90
Tetrachloroethene	91
2-Hexanone	94

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Client Sample ID: LCS

Lab ID#: 1203364-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 08:47 AM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	96
Chlorobenzene	92
Ethyl Benzene	89
m,p-Xylene	92
o-Xylene	89
Styrene	85
Bromoform	107
Cumene	90
1,1,2,2-Tetrachloroethane	92
Propylbenzene	89
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	89

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

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Client Sample ID: LCSD

Lab ID#: 1203364-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 10:07 AM**	

Compound	**%Recovery**
Freon 12	94
Freon 114	89
Chloromethane	81
Vinyl Chloride	89
1,3-Butadiene	87
Bromomethane	106
Chloroethane	87
Freon 11	90
Ethanol	88
Freon 113	88
1,1-Dichloroethene	90
Acetone	85
2-Propanol	104
Carbon Disulfide	111
3-Chloropropene	115
Methylene Chloride	81
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	96
Hexane	87
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	88
Tetrahydrofuran	92
Chloroform	91
1,1,1-Trichloroethane	92
Cyclohexane	87
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	82
Benzene	90
1,2-Dichloroethane	96
Heptane	90
Trichloroethene	94
1,2-Dichloropropane	91
1,4-Dioxane	85
Bromodichloromethane	96
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	93
Toluene	88
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	90
Tetrachloroethene	91
2-Hexanone	94

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Client Sample ID: LCSD

Lab ID#: 1203364-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a031705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/12 10:07 AM**	

Compound	**%Recovery**
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	95
Chlorobenzene	91
Ethyl Benzene	89
m,p-Xylene	94
o-Xylene	90
Styrene	84
Bromoform	106
Cumene	91
1,1,2,2-Tetrachloroethane	92
Propylbenzene	90
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	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

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

Page 1 of 1

Project Manager: Kevin Reed (Invoice: Attn Monica W. Williams)
Collected by: (Print and Sign) Monica Williams
Company: CDM Smith Email: marfach@cdmsmith.com williamsmk@cdmsmith.com
Address: 345 Riverview, Ste 500 City: Wichita State: KS Zip: 67203
Phone: 316-660-6700 Fax: 316-761-3075

Project Info:
P.O. #:
Project #: 2395-88907
Project Name: NIC Site-Wide VI

Turn Around Time:
☑ Normal
☐ Rush
specify

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)
01A	JAS-NIC-417MATH-LVR-03/13/12	5566	3/14/12	1100	TO-15 MS SCAN	-28	-8		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/15/12 1147	[signature]	3/16/12 0900
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 #
	FED EX		N/A	GOOD	Yes No None	1203364

Form 1293 rev. 11

Appendix C
Vapor Intrusion GC/MS Sampling Summary Report

Vapor Intrusion GC/MS Sampling Summary
North Industrial Corridor Site
Wichita, Kansas
March 7-8, 2012

CTEH® Project #80113

Thursday, April 12, 2012

CTEH | Center for Toxicology and Environmental Health, L.L.C.

Introduction and Objectives

CDM Smith, Inc. (CDM) contracted Center for Toxicology and Environmental Health, LLC (CTEH®) to conduct indoor air sampling and monitoring in Wichita, Kansas, as a part of an ongoing vapor intrusion investigation. CDM had been retained by the City of Wichita to conduct a vapor intrusion assessment for the North Industrial Corridor (NIC) Site located in the north-central portion of Wichita. The independent investigation was conducted as part of Phase 3 as written in the established work plan[1], with CTEH® focusing on indoor source survey and removal by utilizing the HAPSITE® ER portable Gas Chromatograph/ Mass Spectrometer (GC/MS). A total of four (4) properties were screened for indoor sources on-site of volatile organic compound (VOC) vapors using the portable GC/MS. Specifically, the VOCs of concern for these properties were: benzene, chloroform, and tetrachloroethylene (perchloroethylene or PCE).

To evaluate potential vapor intrusion from a subsurface source, it is necessary to consider whether VOCs detected in indoor air may alternately be present as "background sources" present within the business/residence. Therefore, CTEH® conducted indoor air sampling and monitoring for potential identification of "background sources" as defined in this report as sources of VOCs other than those potentially contributed by a subsurface source.

As discussed by the United States Environmental Protection Agency (USEPA), consideration of background sources is an important part of evaluating the vapor intrusion pathway. The USEPA states that:

> "Indoor air in most buildings will contain detectable levels of organic compounds whether or not the building overlies a subsurface source of vapors (USEPA, 2008), because there are numerous potential indoor sources (often called background sources) of these compounds (e.g. consumer products, building materials, combustion sources)." (USEPA, 2008)

and

> "…it is our judgment that indoor air sampling results can be misleading because it is difficult and sometimes impossible to eliminate or adequately account for contributions from "background sources." (USEPA, 2002).

Background indoor air concentrations of VOCs are affected by the activities, lifestyles, and products used by the occupants. Consequently, background contribution is variable and is site specific. The USEPA 2002 guidance document further states that "it is critical to consider the presence of background concentrations in assessing the vapor intrusion pathway." Therefore, air monitoring was conducted for

[1] *Vapor Intrusion Assessment Work Plan*, North Industrial Corridor Site, Wichita, Kansas, December 2011.

potential background sources of VOC contributions to indoor air at the following 4 properties in Wichita, Kansas:

Location ID	Property Address	Location Type
P1	1105 East 12th Street #100A	Residential
P45	1347 Mathewson Street	Residential
P25	1402 East Arnold Street	Residential
P34	1035 North Cleveland Avenue	Residential

Methods and Site Activities

CTEH® used a portable GC/MS in both the quantitative (sampling) and semi-quantitative (survey or monitoring) modes. In the quantitative mode, a discrete sample was collected for approximately one minute and analyzed by the GC/MS-Selective Ion Monitoring (SIM) method. The GC/MS analysis focused on the following chemicals of potential concern (COPCs) determined by the City's remedial investigation site data: PCE, benzene (BZ) and chloroform. Quantitative samples were collected, at minimum, in the main living of the structure to obtain an estimated baseline of VOC concentrations. If a basement or crawlspace was accessible, at least one sample was collected in that area.

Quantitative results were reviewed and if concentrations of the COPCs exceeded the screening values or a further investigation was needed to determine the background source, then additional rooms and/or storage areas were evaluated using the instrument in "survey" mode. In the survey mode, the GC was bypassed and the MS detector was used to screen for selected masses. The SIM-surveys focused on identifying the COPCs for that property. The instrument probe was slowly drawn across products, materials, shelving, etc. while continuously drawing in air to the MS detector. The instrument output screen was monitored for "peaks" above the baseline, which suggested the presence of the target compounds at that location. If "peaks" indicated the potential presence of the COPCs were observed, the product or area was often re-screened to confirm the measurement.

During the Phase 3 investigation, if background sources were identified by CTEH® and permission was granted by the property owner or its representative, then CDM consultants would request for the identified sources to be removed from the inside of the residence to outside storage or a detached garage until twenty-four (24) hour indoor air sampling was completed. Sources were identified in 3 of the 4 residences and are listed in the table below. CDM documented the products removed and will be provided in their report.

Location ID	Property Address	Sources Identified	Sources Removed
P1	1105 East 12th Street #100A	No	No
P45	1347 Mathewson Street	Yes	Yes
P25	1402 East Arnold Street	Yes	Yes
P34	1035 North Cleveland Avenue	Yes	No

This report summarizes quantitative and semi-quantitative data collected by CTEH® at the properties listed in the table above. Quantitative and semi-quantitative (survey) summaries are included herein. Quantitative results are provided for the COPCs in ppbv and converted to µg/m^3. Pictures of chromatograms are provided below the results table where peaks are visible. Mainly, visible peaks were for the two system monitoring compounds (or internal standards). Survey summaries include photographs of the products identified as "background sources" or suspected "background sources," as well as the associated COPCs and level of confidence in source identification. The spectrogram associated with products screened displays "peaks" at the elapsed time and relative intensity. In the event that no "peaks" were observed while the instrument was running in the survey mode at a specific location or for an entire property, a summary was not included in this report.

Summary of Portable GC/MS Indoor Air Results

<u>1105 East 12th Street, #100A</u>

Low levels of chloroform were found in indoor air consistently throughout the apartment residence, ranging from 0.69 to 1.13 µg/m^3 by the portable GC/MS on March 7, 2012. The majority of these levels were above the residential screening value of 1.06 µg/m^3. Typically, when background sources are present, indoor air concentrations of the target COPC increase the closer you are to the source, and decrease the further you are from the source. In this case, concentrations were mainly consistent throughout the apartment. The highest chloroform concentrations were observed in the living room and bathroom at 1.13 µg/m^3 and 1.11 µg/m3 respectively. Potential background sources were identified in the bathroom and potentially contributed to the elevated concentrations (above the screening value). Semi-quantitative screening was performed using the MS only mode (survey mode) around cleaning products in the laundry area, products stored under the kitchen sink, and items stored in the bathroom. Other sources may have been present and not identified, since chloroform concentrations were fairly uniform throughout the property. An example of a potential background source, though not found using the GC/MS, is bleach. A container of bleach was observed in the laundry

area of the apartment. If the chloroform vapors were being emitted from the bleach container at similar concentrations to indoor air, then the MS cannot differentiate a source from background.

In addition, a field experiment was performed to see if chloroform was identified using the GC/MS over a boiling pot of treated city water and around hot water drawn from a faucet. It was believed that chloroform concentrations may be from treated city water. Chloroform was not identified by the GC/MS in screening mode, however if concentrations from treated water were similar to indoor air concentrations, again, the instrument could not differentiate background from a source.

1347 Mathewson Street

Indoor air samples were collected throughout the basement and main levels of the house using the portable GC/MS on March 7th. Chloroform concentrations were higher in the basement and increased closer to the laundry room, where individual possible and likely sources were later identified. Several cleaning products (including bleach) were identified as possible background sources. One product was identified as a likely source of chloroform. All background products were relocated to the detached garage until after the 24 hour sampling period could be performed. Twenty-four hour sampling was postponed to conduct confirmation screening prior to 24-hr SUMMA canister sampling. Confirmation sampling was performed in order to determine if the airborne concentrations of the COPCs had decreased with the removal of the identified individual background sources. CTEH® revisited the residence the following day (March 8th) and performed confirmation sampling. To assess whether or not chloroform was volatilizing from beneath the house, a quantitative sample was collected in the sump, which was open to the area below the basement (SIMQuantNIC_20120308_011). Chloroform was not detected above the reporting limit of 0.24 $\mu g/m^3$, indicating that the presence of background sources contributed to the increased indoor air concentrations of chloroform. Confirmation sampling results showed a decrease in indoor air concentrations of chloroform in both the basement and main level of the residence.

1402 East Arnold Street

Quantitative HAPSITE GC/MS indoor air sample results collected on March 8th from the crawlspace and main level were below method reporting limits (lowest calibration level), and the screening values for chloroform. Possible sources were identified using the semi-quantitative survey mode. These sources, which were primarily cleaning supplies, were found stored under the kitchen and a bathroom sink. These products were removed prior to 24 hour sampling on March 8th.

1035 North Cleveland Avenue

Sampling was conducted using the portable GC/MS on March 8, 2012. Quantitative indoor air results were below method reporting limits and screening values for the COPCs in the basement, living room, and the kitchen. One sample was collected in the sump, which was open to the area below the

basement. There were no detections of the COPCs above the reporting limits. A sample was collected in the kitchen by the door leading to the attached garage, before the door was opened, and resulted in no detections of any of the COPCs. Because the door was opened to the garage, which allowed for air to come into the house from the garage, a sample was collected in the garage in order to determine if the products stored in the garage could be contributing background sources. There was "presumptive evidence" of benzene in the garage. Three additional samples were collected in the kitchen by the rear entry (with the door closed) to determine any change in indoor air concentrations. The first sample (SIMQuantNIC_20120308_019) results reported chloroform at 2.38 $\mu g/m^3$. A second sample was collected in the same location approximately 15 minutes later (SIMQuantNIC_20120308_020) and resulted in a benzene detection of 2.07 $\mu g/m^3$. For the third sample collected after the door to the garage was closed (SIMQuantNIC_20120308_021), results were below reporting limits. Indoor air concentrations of chloroform and benzene increased after the garage door was opened, where products such as, paints and other remodeling products, were stored. The increased concentrations of the COPCs were probably not from sources stored in the house, but instead can most likely be attributed to sources stored in the garage.

QA/QC Procedures

Quality assurance and quality control (QA/QC) measures were conducted following the collection of samples to ensure that sampling results are usable. Proper QA/QC actions were taken to ensure completeness and correctness of data.

Prior to the analyses of any samples, blanks, or calibration standards, the instrument performance check (MS tune) was performed to establish that the GC/MS system met the mass spectral ion abundance criteria. The instrument performance check solution was analyzed, at minimum, once daily. After the MS tune met criteria, a continuing calibration verification (CCV) standard was prepared and analyzed at least once daily to ensure that the instrument was within acceptable calibration criteria prior to field sample collection. The daily CCV concentration was the same concentration of one of the standards used to calibrate (initial calibration curve) the method. Refer to Attachment A for a summary of the daily CCVs analyzed. If one of the COPCs was not found in the CCV, the data would have been "flagged" as "R" or rejected. However, there were no instances of rejected data for this data set, since there is no occurrence of when the COPC was not found in the QC sample, but found in the investigative sample. After the CCV was analyzed, a method blank (MB; nitrogen only) was prepared and analyzed in likewise fashion of the CCV standard to monitor for contamination (Attachment B). If an analyte in the MB was found to be outside of control limits and the analyte is also found in associated samples above the lower calibration limit, those sample results would have been "flagged" with a "B" and noted as possibly contaminated. There were no data flagged as "B", since all of the COPC results were below the lowest calibration standard in all blanks. Furthermore, whenever a high concentration sample was encountered, a MB was sampled and analyzed to check for carryover effects. Lastly System monitoring compounds (Internal Standards) were injected into each sample to ensure the GC/MS sensitivity and

response were stable during each analytical run. Samples would have been flagged if not within (-50-+100% area, ± 30 second retention time shift) criteria.

Data Flags

The quantification method "SIMQuantNIC" was used for this project. For the purposes of this report, the lowest calibration limit (lowest calibration standard) and upper calibration limit (highest calibration standard) were also used to flag data. For example, if the instrument software provided a concentration of one of the COPCs below the lowest calibration standard, then the data was flagged with a "J" flag. The lower and upper calibration limits for the method used are provided below.

SIMQuantNIC Reporting Limits

	Lower Calibration Limit		Upper Calibration Limit	
Analyte	ppbv	µg/m^3	ppbv	µg/m^3
Benzene	0.05	0.160	10.6	33.864
Chloroform	0.05	0.244	10.2	49.803
PCE	0.11	0.746	10.8	73.250

Furthermore, the "N" flag was used when there was presumptive evidence (i.e. small peaks in the chromatogram within retention window criteria of the presence of the analyte, however the instrument software did not calculate a concentration since the peak was outside of the search parameters. Flags or qualifiers used in this report are as follows:

U – The compound was analyzed but not detected. No concentration was quantified by the instrument.

N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.

J – Estimated concentration. The compound was detected at a concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

References

USEPA. OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathways from Groundwater and Soils (Subsurface Vapor Intrusion Guidance). Washington, DC: U.S. Environmental Protection Agency; 2002 Nov; EPA/530/D-02/004.

USEPA. U.S. EPA's Vapor Intrusion Database: Preliminary Evaluation of Attenuation Factors (Draft). Washington, DC: U.S. Environmental Protection Agency; 2008 Mar 4.

Sampling Report
Results of Indoor Air Source Testing for
1105 East 12th Street #100A, Wichita, Kansas

Prepared by Center for Toxicology and
Environmental Health, L.L.C
Little Rock, Arkansas

March 26, 2012

CTEH

PRELIMINARY DRAFT

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1105 East 12th Street #100A

Location ID: P1

Sample Time: 3/7/2012 10:15:00 AM

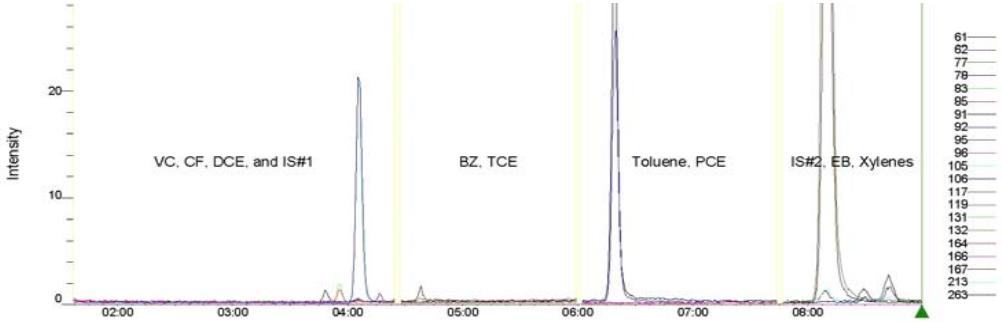
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_004.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_004	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120307_004	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_004	Chloroform	0.14	0.69

Main - Laundry Room



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1105 East 12th Street #100A

Location ID: P1

Sample Time: 3/7/2012 10:35:00 AM

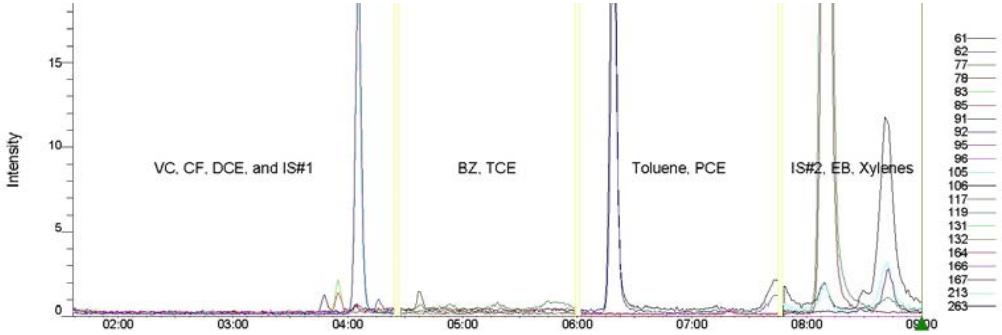
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_005.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_005	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120307_005	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_005	Chloroform	0.23	1.13

Main - Living Room



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1105 East 12th Street #100A

Location ID: P1

Sample Time: 3/7/2012 10:53:00 AM

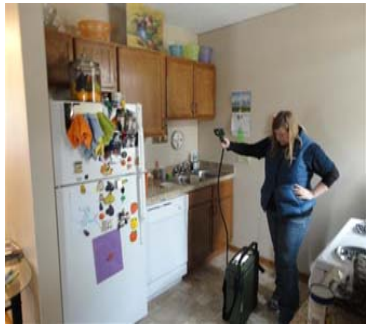
Sample Type: Sample

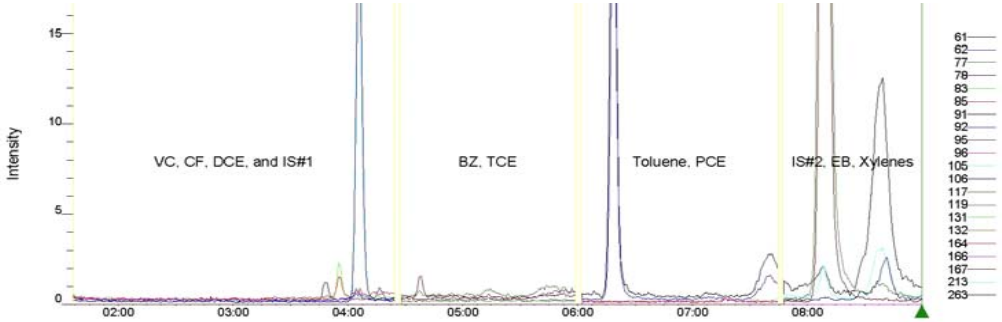
Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_006.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_006	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120307_006	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_006	Chloroform	0.22	1.09

Main - Kitchen





U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1105 East 12th Street #100A

Location ID: P1

Sample Time: 3/7/2012 11:07:00 AM

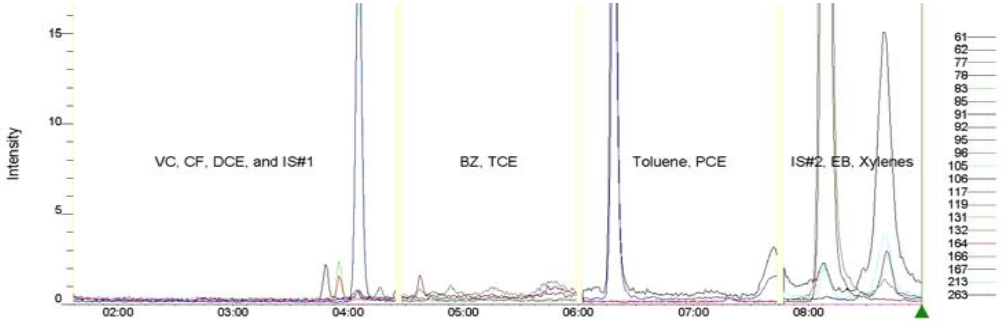
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_007.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_007	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120307_007	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_007	Chloroform	0.23	1.11

Main - Bathroom

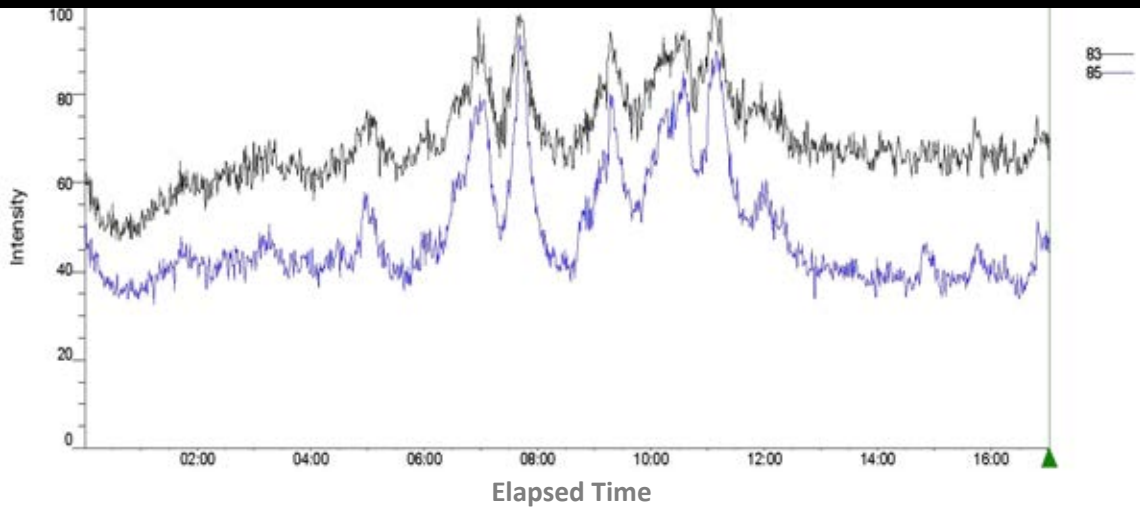


U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

Address: 1105 East 12th Street #100A
Property ID: P1
Location: Bathroom Linen Closet
Method: ChloroformSurvey
Start Time: 11:23 AM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
6:30 -7:30	Hannoush Jewelry Cleaner	Rise in Baseline	Chloroform	Possible Source	
7:30-7:45	Connoisseurs Jewelry Cleaner	Rise in Baseline	Chloroform	Possible Source	

Spectrogram: ChloroformSurvey_20120307_001



Chloroform Identifyinig Ions: 83 (black), 85 (blue)

†Level of Confidence in Source Identification:

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Sampling Report
Results of Indoor Air Source Testing for 1347 Mathewson Street, Wichita, Kansas

Prepared by Center for Toxicology and
Environmental Health, L.L.C
Little Rock, Arkansas

March 26, 2012

CTEH

PRELIMINARY DRAFT

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 2:20:00 PM

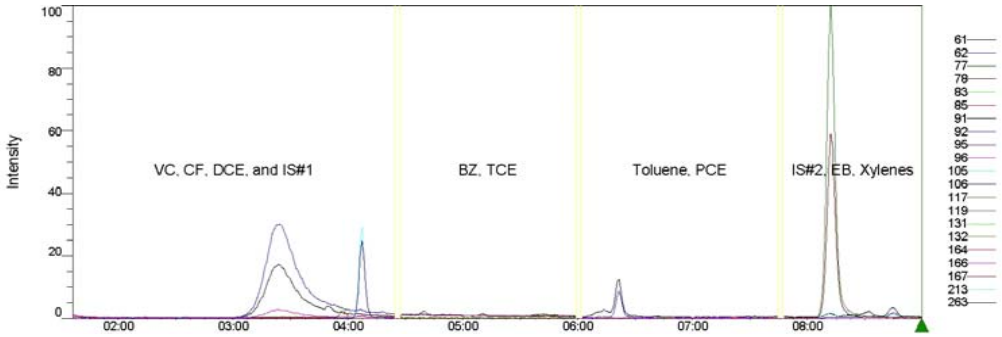
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_010.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_010	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_010	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_010	Chloroform	0.43	2.12

Basement - Middle of Room



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 2:38:00 PM

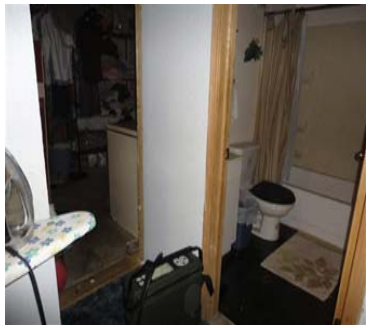
Sample Type: Sample

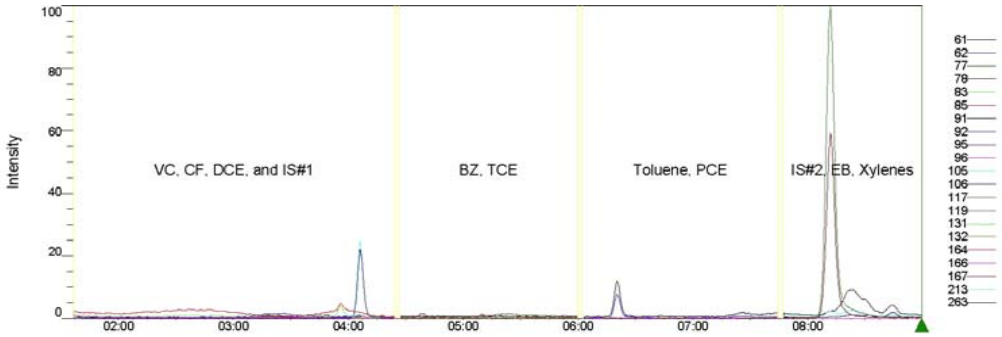
Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_011.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_011	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_011	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_011	Chloroform	0.71	3.45

Basement - Hallway between Bathroom and Laundry Room





U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 2:51:00 PM

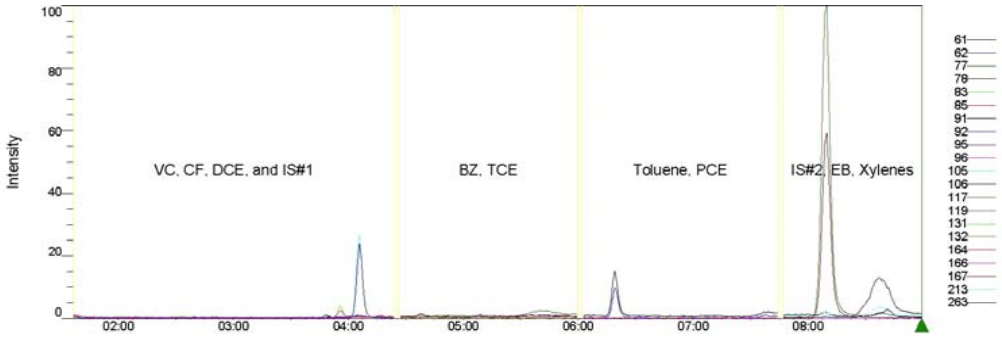
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_012.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_012	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_012	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_012	Chloroform	0.50	2.42

Basement - Laundry Room



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 3:23:00 PM

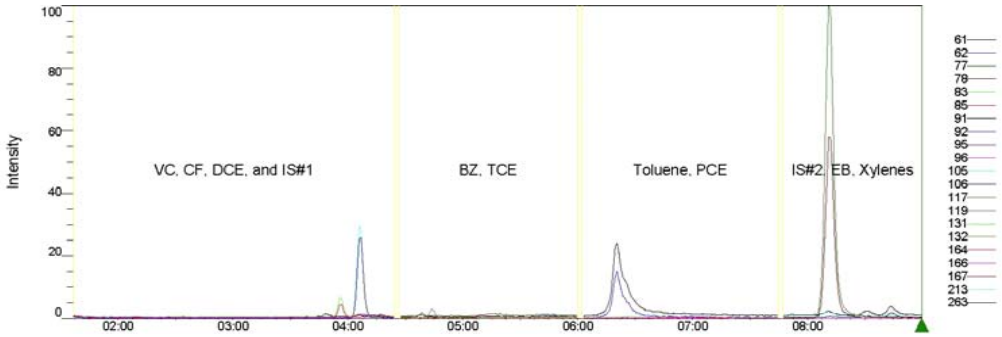
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_013.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_013	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_013	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_013	Chloroform	1.00	4.89

Basement - Laundry Room



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N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 3:40:00 PM

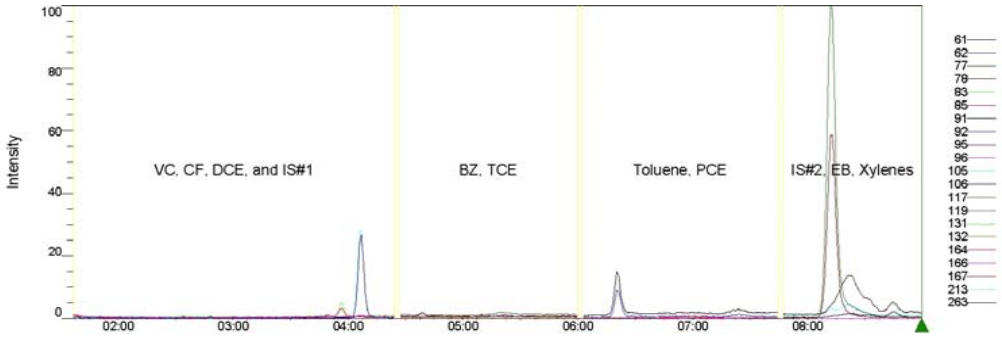
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_014.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_014	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_014	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_014	Chloroform	0.58	2.84

Basement - Second Bedroom



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 3:55:00 PM

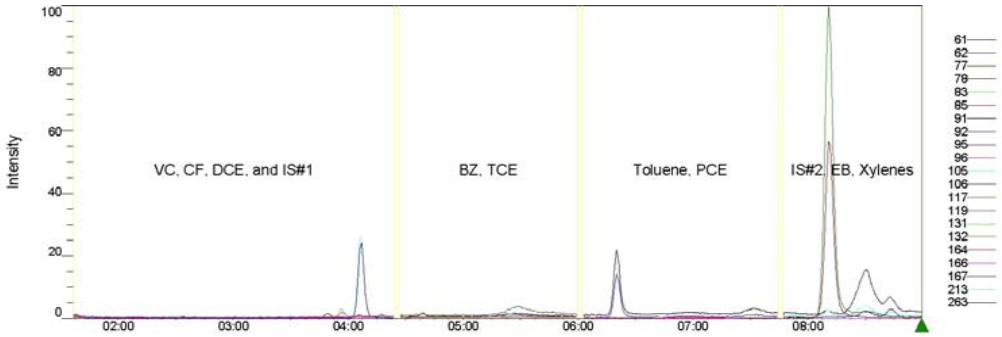
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_015.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_015	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_015	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_015	Chloroform	0.26	1.26

Main - Living Room



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 4:12:00 PM

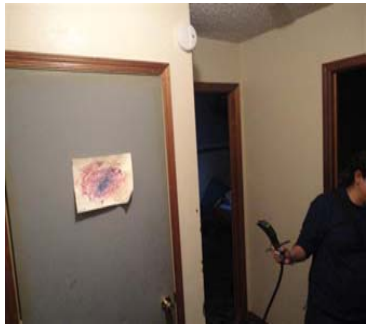
Sample Type: Sample

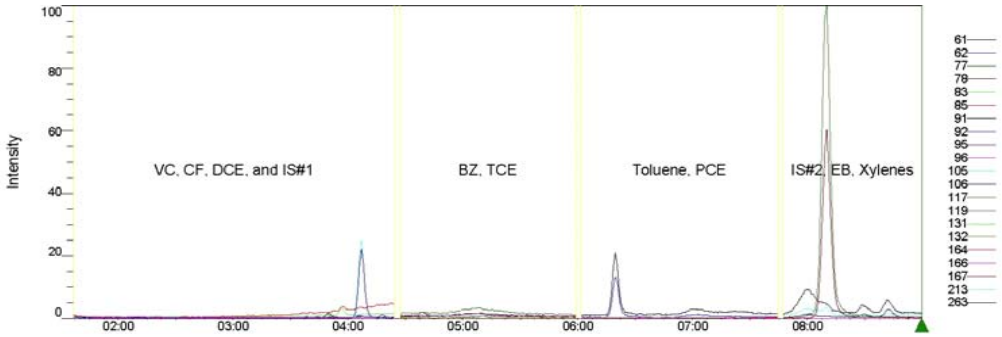
Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_016.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_016	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_016	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_016	Chloroform	0.29	1.42

Main - Hallway by bedrooms





U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/7/2012 4:30:00 PM

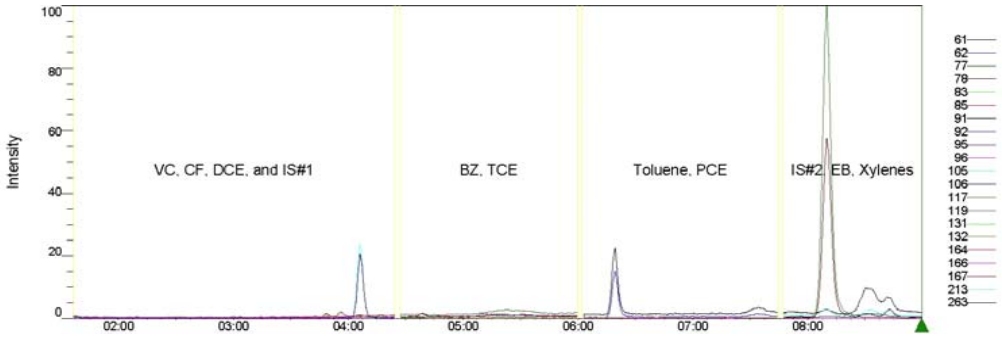
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120307_017. hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120307_017	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120307_017	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120307_017	Chloroform	0.27	1.32

Main - Master Bedroom

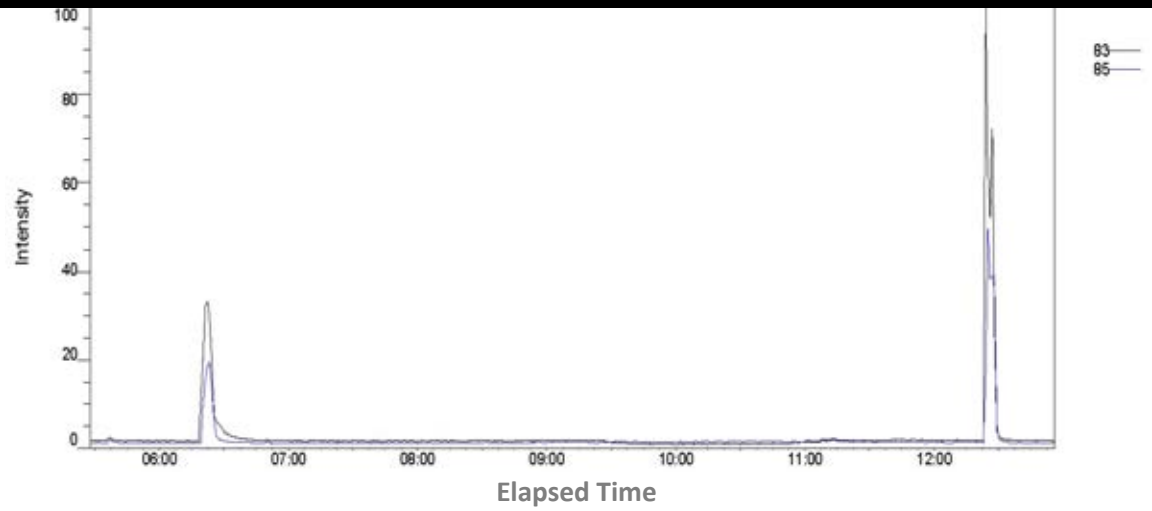


U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

Address: 1347 Mathewson Street
Property ID: P45
Location: Basement - Laundry Room
Method: ChloroformSurvey
Start Time: 3:10 PM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
11:00-12:30	Mean Green Mildew destroyer	Peak	Chloroform	Likely Source	
6:00	Mean Green Mildew destroyer	Peak	Chloroform	Likely Source	

Spectrogram: ChloroformSurvey_20120307_004



Chloroform Identifyinig Ions: 83 (black), 85 (blue)

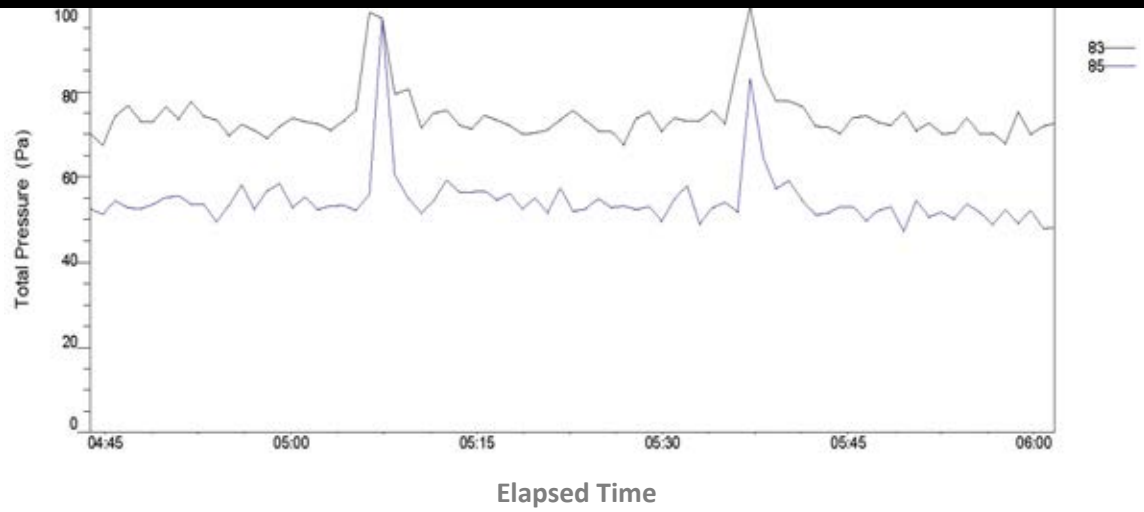
†Level of Confidence in Source Identification:

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Address: 1347 Mathewson Street
Property ID: P45
Location: Basement - Laundry Room
Method: ChloroformSurvey
Start Time: 3:10 PM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
5:00- 5:45	Great Value Rain Scent Bleach	Peak	Chloroform	Possible Source	

Spectrogram: ChloroformSurvey_20120307_004



Chloroform Identifyinig Ions: 83 (black), 85 (blue)

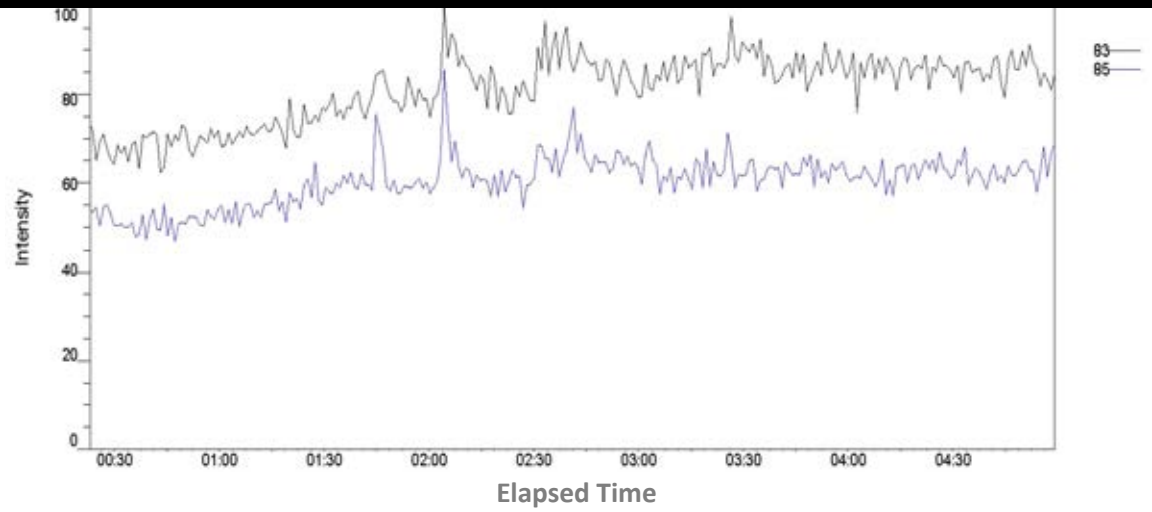
†Level of Confidence in Source Identification:

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Address: 1347 Mathewson Street
Property ID: P45
Location: Basement - Laundry Room
Method: ChloroformSurvey
Start Time: 3:10 PM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
1:45-2:30	Downy Unstopables in-wash Scent Booster	Rise in Baseline	Chloroform	Possible Source	

Spectrogram: ChloroformSurvey_20120307_004



Chloroform Identifyinig Ions: 83 (black), 85 (blue)

†Level of Confidence in Source Identification:

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

PRELIMINARY DRAFT

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/8/2012 10:44:00 AM

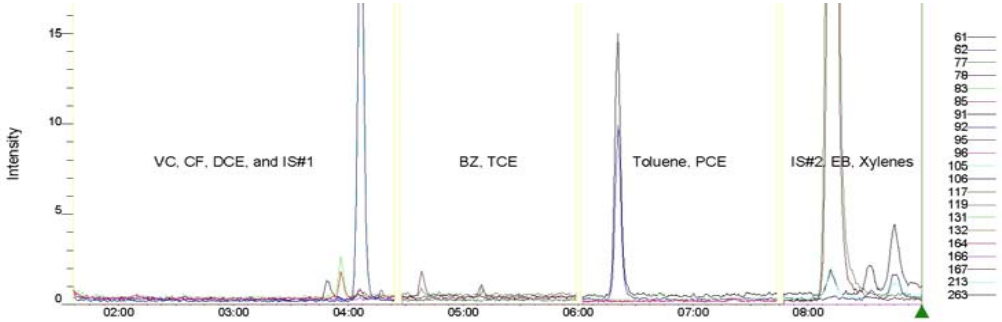
Sample Type: Sample

Sample Task: Confirmation Sampling

Sample File Name: SIMQuantNIC_20120308_009.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_009	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120308_009	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_009	Chloroform	0.23	1.11

Basement - Base of Stairs



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

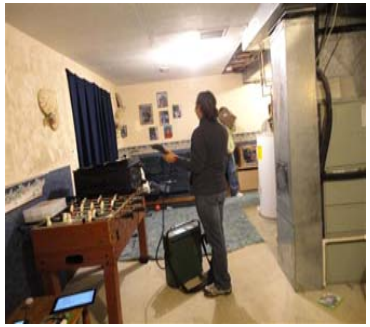
SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

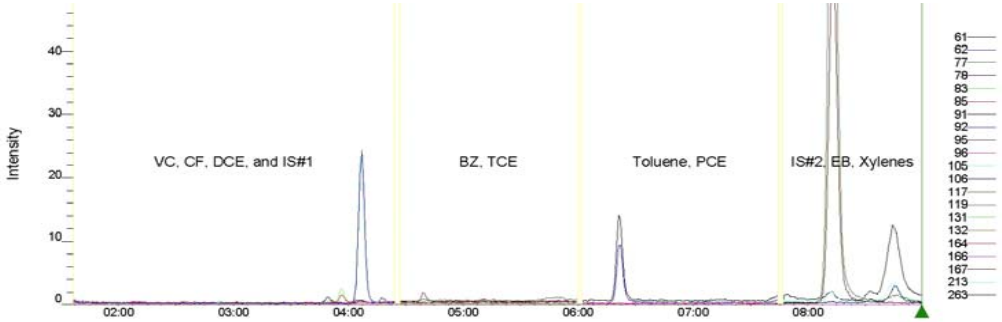
Location ID: P45

Address: 1347 Mathewson Street
Sample Time: 3/8/2012 11:00:00 AM
Sample Type: Sample
Sample Task: Confirmation Sampling
Sample File Name: SIMQuantNIC_20120308_010.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_010	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_010	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_010	Chloroform	0.23	1.13

Basement - Living Room





U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1347 Mathewson Street

Location ID: P45

Sample Time: 3/8/2012 11:15:00 AM

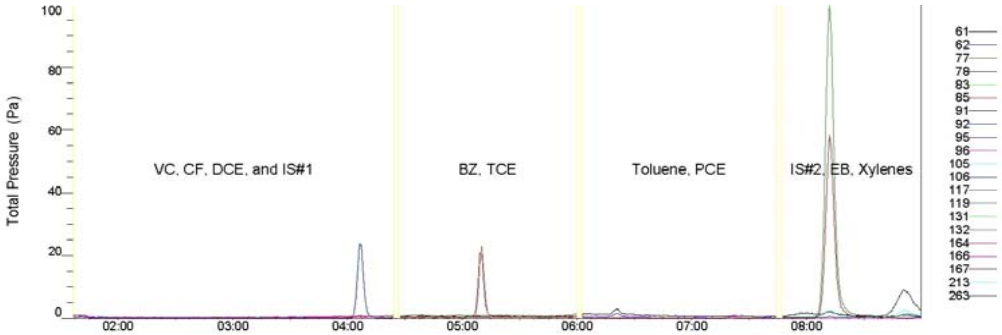
Sample Type: Sample

Sample Task: Confirmation Sampling

Sample File Name: SIMQuantNIC_20120308_011.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_011	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_011	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_011	Chloroform	<0.05 U	<0.24 U

Basement - Inside of Sump Pump



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

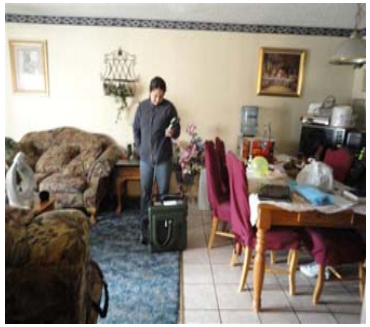
SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

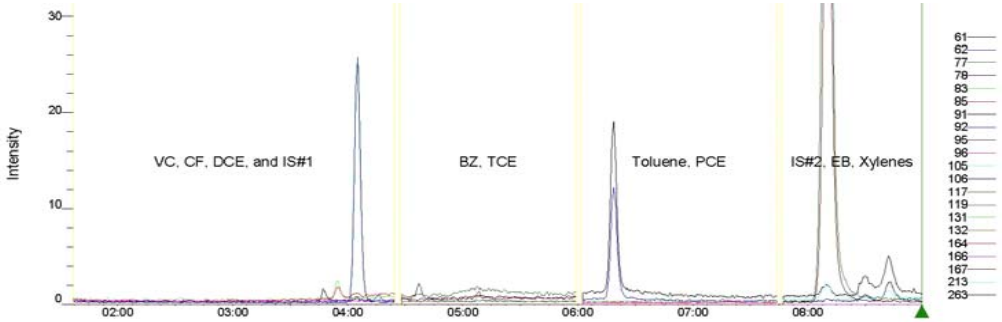
Location ID: P45

Address: 1347 Mathewson Street
Sample Time: 3/8/2012 11:30:00 AM
Sample Type: Sample
Sample Task: Confirmation Sampling
Sample File Name: SIMQuantNIC_20120308_012.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_012	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_012	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_012	Chloroform	0.10	0.49

Main - Living Room





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N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

Sampling Report
Results of Indoor Air Source Testing for 1402 East Arnold Street, Wichita, Kansas

Prepared by Center for Toxicology and
Environmental Health, L.L.C
Little Rock, Arkansas

March 26, 2012

CTEH

PRELIMINARY DRAFT

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1402 East Arnold Street

Location ID: P25

Sample Time: 3/8/2012 9:09:00 AM

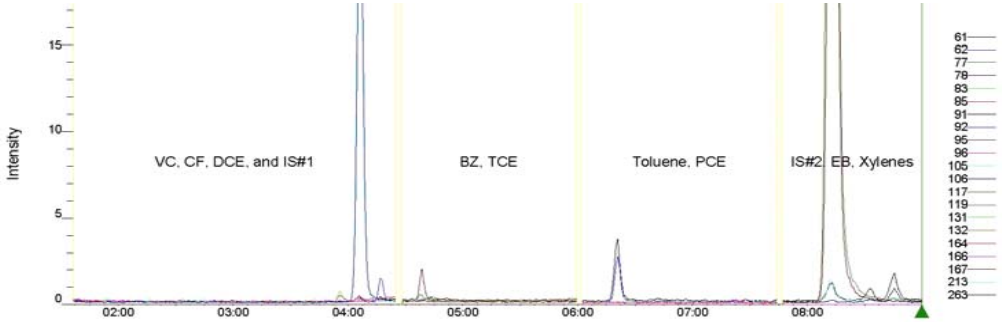
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_004.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_004	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120308_004	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_004	Chloroform	<0.05 U, N	<0.24 U, N

Main - Laundry Room



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1402 East Arnold Street

Location ID: P25

Sample Time: 3/8/2012 9:24:00 AM

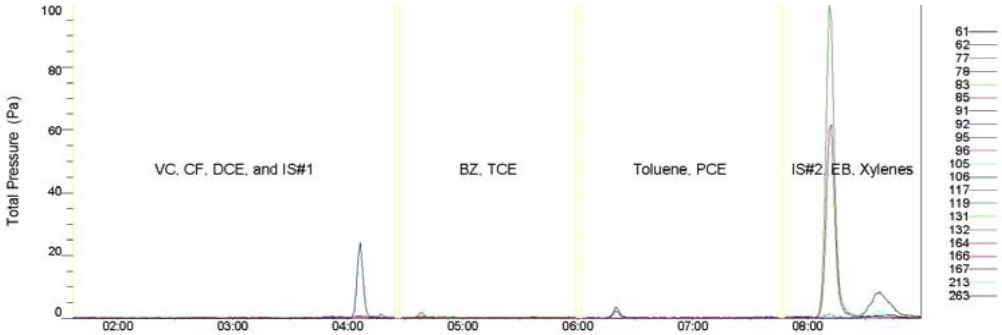
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_005.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_005	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120308_005	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_005	Chloroform	<0.05 U	<0.24 U

Main - Kitchen cabinet under sink (5 minute attenuation)



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1402 East Arnold Street

Location ID: P25

Sample Time: 3/8/2012 9:51:00 AM

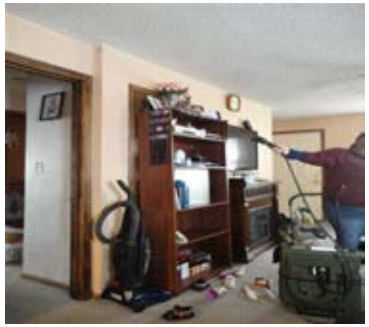
Sample Type: Sample

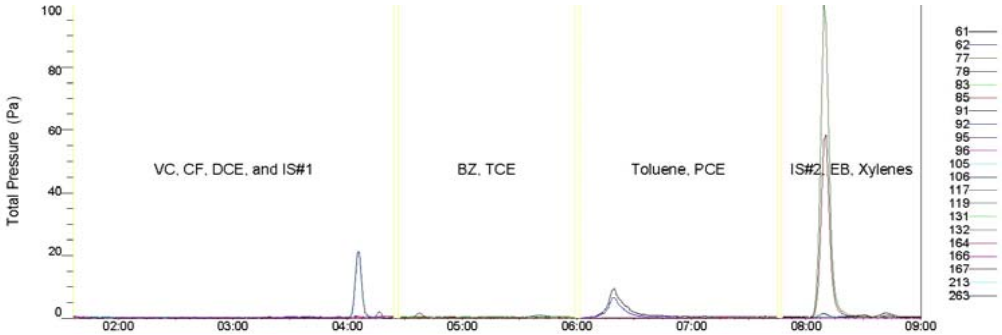
Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_006.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_006	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_006	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_006	Chloroform	<0.05 U	<0.24 U

Main - Living Room





U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1402 East Arnold Street

Location ID: P25

Sample Time: 3/8/2012 10:13:00 AM

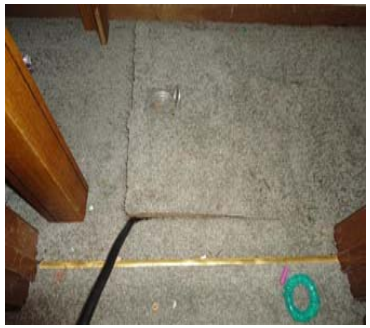
Sample Type: Sample

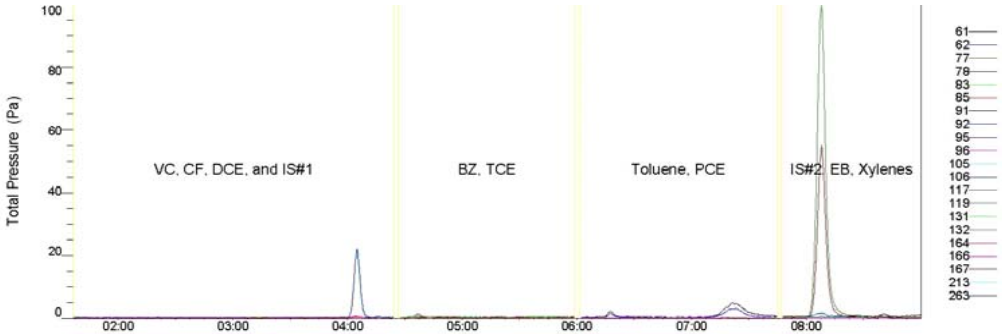
Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_007.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_007	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_007	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_007	Chloroform	<0.05 U	<0.24 U

Crawlspace - Accessed through hallway closet





U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1402 East Arnold Street

Location ID: P25

Sample Time: 3/8/2012 10:28:00 AM

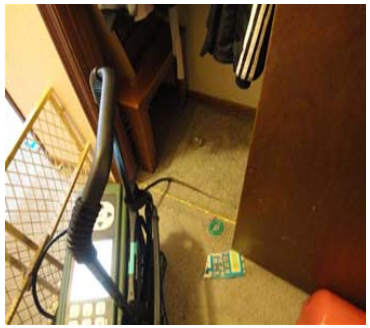
Sample Type: Sample

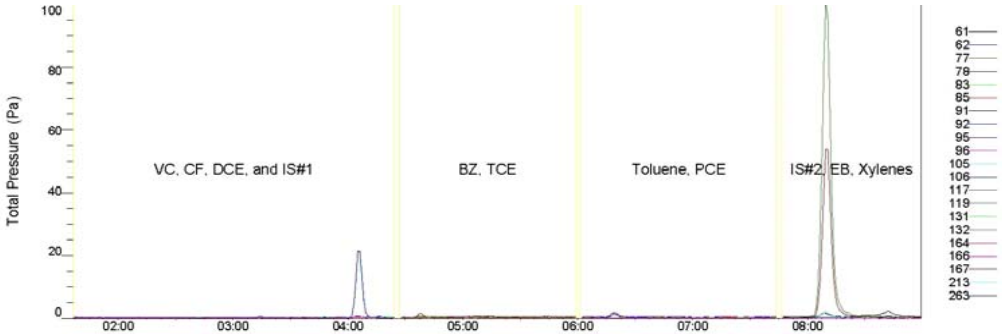
Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_008.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_008	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_008	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_008	Chloroform	<0.05 U	<0.24 U

Crawlspace - Accessed through hallway closet



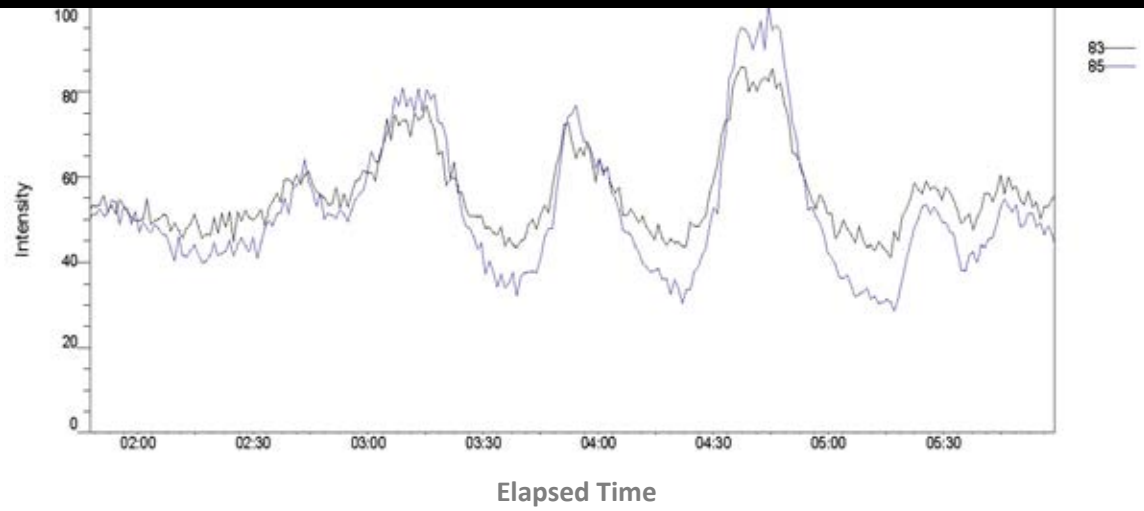


U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

Address: 1402 East Arnold Street
Property ID: P25
Location: Cabinet under kitchen sink
Method: ChloroformSurvey
Start Time: 9:37 AM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
2:30-4:00	Johnsen's Starting Fluid	Rise in Baseline	Chloroform	Possible Source	
4:30-5:15	Lysol Neutra Air Air Freshener	Peak	Chloroform	Possible Source	

Spectrogram: ChloroformSurvey_ 20120308_001



Chloroform Identifyinig Ions: 83 (black), 85 (blue)

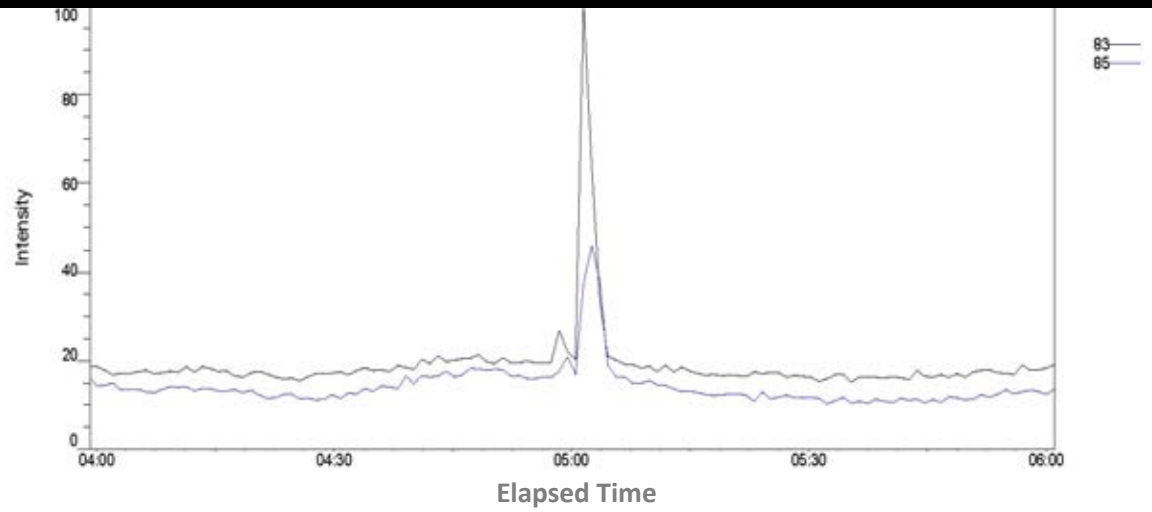
†Level of Confidence in Source Identification:

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Address: 1402 East Arnold Street
Property ID: P25
Location: Bathroom
Method: ChloroformSurvey
Start Time: 10:09 AM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
5:00	Lysol Disinfectant Power Toilet Bowl Cleaner	Peak	Chloroform	Possible Source	

Spectrogram: ChloroformSurvey_20120308_002



Chloroform Identifyinig Ions: 83 (black), 85 (blue)

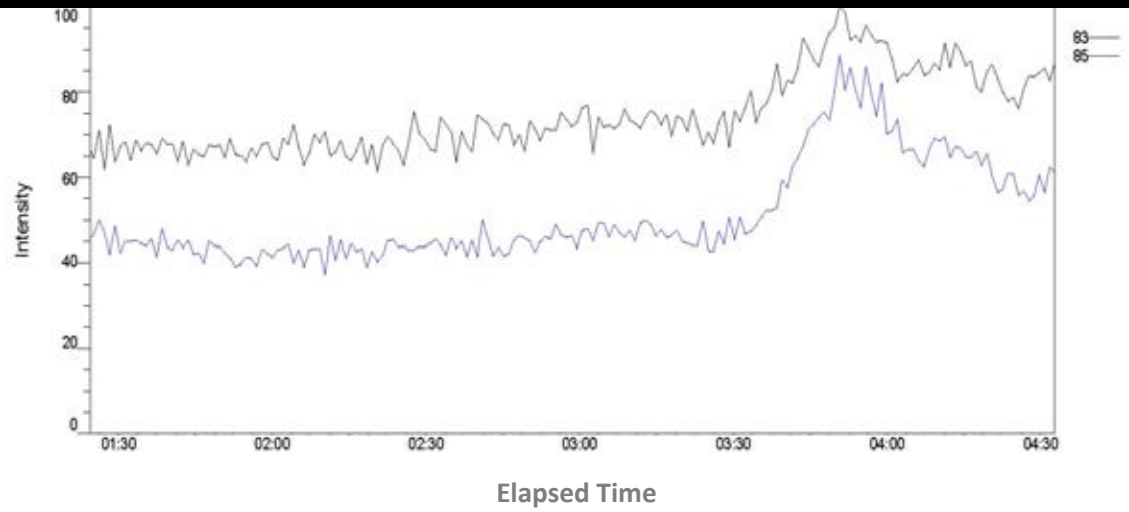
†Level of Confidence in Source Identification:

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Address: 1402 East Arnold Street
Property ID: P25
Location: Bathroom
Method: ChloroformSurvey
Start Time: 10:09 AM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
3:40-4:30	Arm and Hammer Clean Shower Spray	Rise in Baseline	Chloroform	Possible Source	

Spectrogram: ChloroformSurvey_20120308_002



Chloroform Identifyinig Ions: 83 (black), 85 (blue)

†Level of Confidence in Source Identification:

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Sampling Report
Results of Indoor Air Source Testing for
1035 North Cleveland Avenue, Wichita, Kansas

Prepared by Center for Toxicology and
Environmental Health, L.L.C
Little Rock, Arkansas

March 26, 2012

CTEH

PRELIMINARY DRAFT

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1035 North Cleveland Avenue

Location ID: P34

Sample Time: 3/8/2012 12:53:00 PM

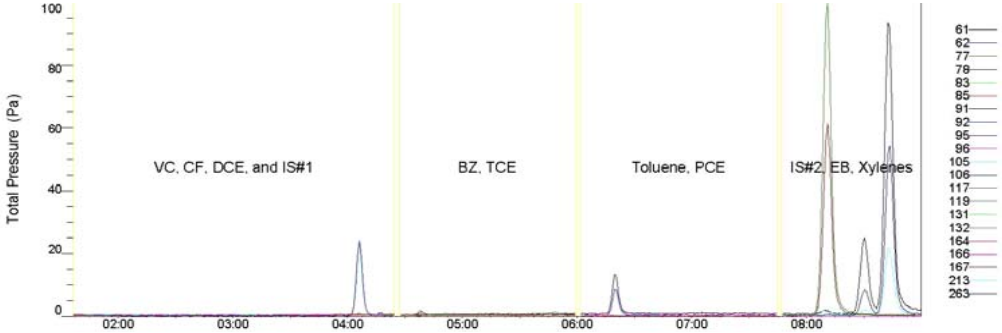
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_014.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_014	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_014	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_014	Chloroform	<0.05 U	<0.24 U

Basement - Laundry Area



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1035 North Cleveland Avenue

Location ID: P34

Sample Time: 3/8/2012 1:04:00 PM

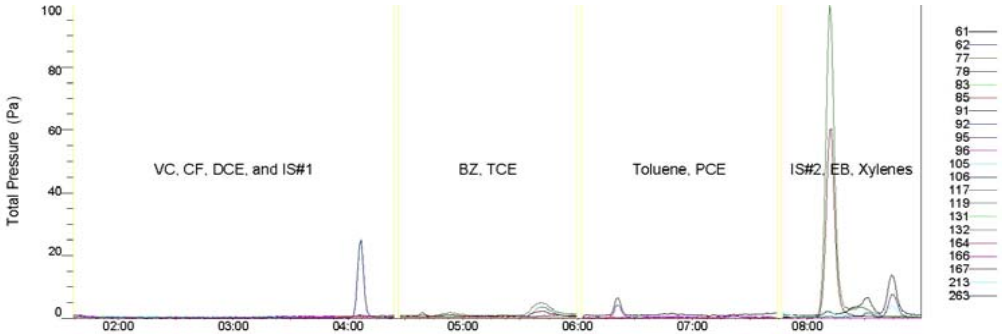
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_015.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_015	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_015	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_015	Chloroform	<0.05 U	<0.24 U

Basement - By sump pump (unsealed)



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

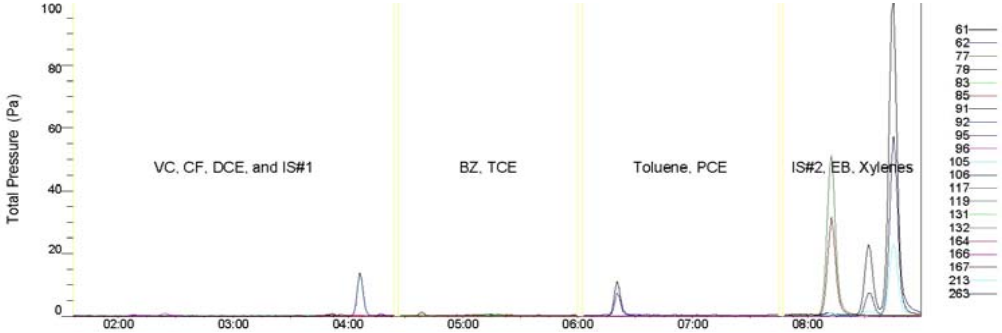
SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Location ID: P34

Address: 1035 North Cleveland Avenue
Sample Time: 3/8/2012 1:30:00 PM
Sample Type: Sample
Sample Task: Regular Sampling
Sample File Name: SIMQuantNIC_20120308_016.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_016	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_016	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_016	Chloroform	<0.05 U	<0.24 U

Main - Living room



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N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

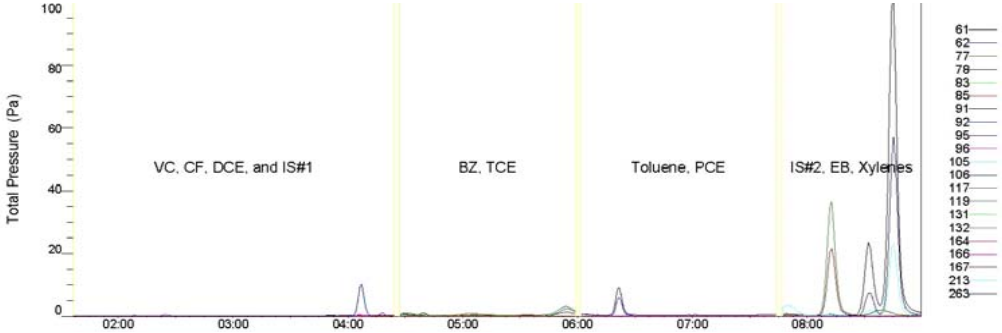
SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Location ID: P34

Address: 1035 North Cleveland Avenue
Sample Time: 3/8/2012 1:45:00 PM
Sample Type: Sample
Sample Task: Regular Sampling
Sample File Name: SIMQuantNIC_20120308_017.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_017	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120308_017	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_017	Chloroform	<0.05 U	<0.24 U

Main - Kitchen



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N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1035 North Cleveland Avenue

Location ID: P34

Sample Time: 3/8/2012 2:26:00 PM

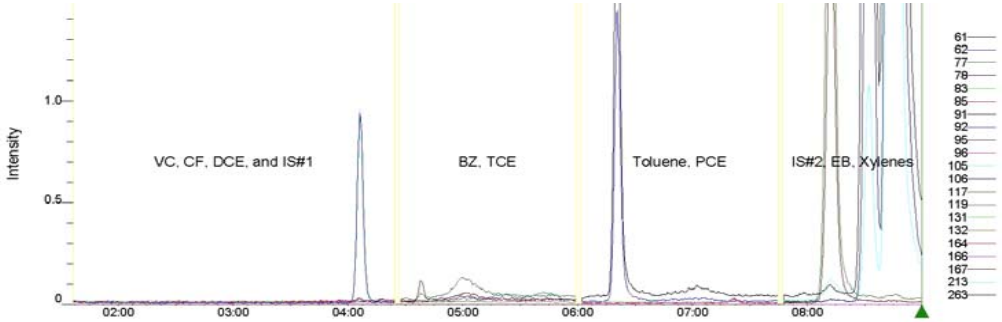
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_018.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_018	Benzene	<0.05 U, N	<0.16 U, N
SIMQuantNIC_20120308_018	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_018	Chloroform	<0.05 U	<0.24 U

Main - Garage



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N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1035 North Cleveland Avenue

Location ID: P34

Sample Time: 3/8/2012 2:46:00 PM

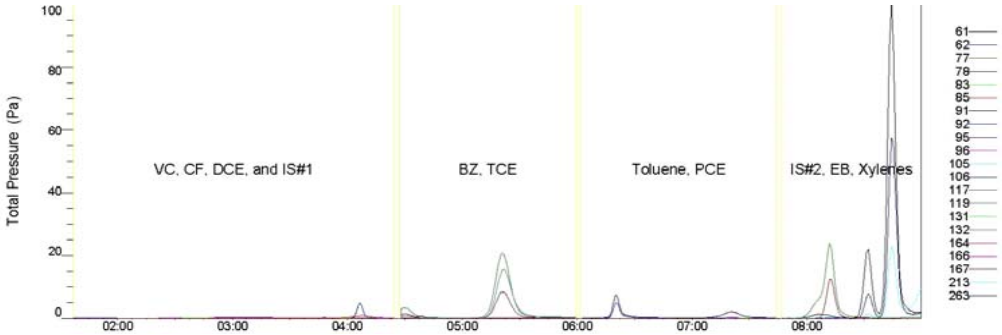
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_019.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_019	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_019	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_019	Chloroform	0.49	2.38

Main - Kitchen- by rear entrance



U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1035 North Cleveland Avenue

Location ID: P34

Sample Time: 3/8/2012 3:05:00 PM

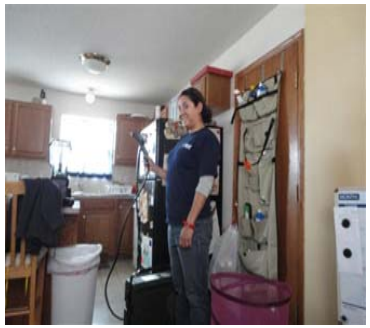
Sample Type: Sample

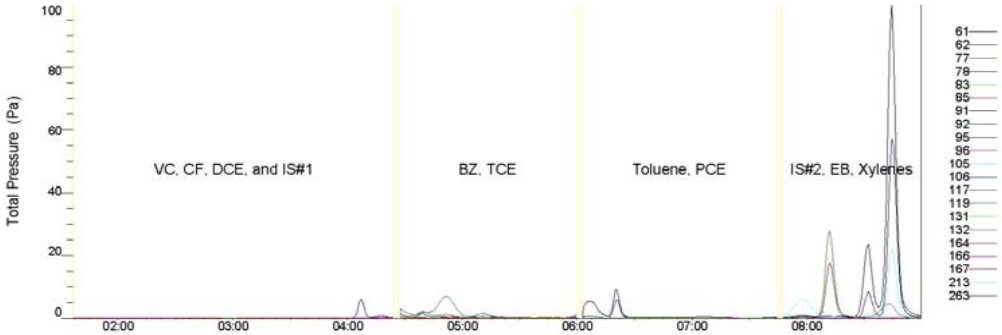
Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_020.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_020	Benzene	0.65	2.07
SIMQuantNIC_20120308_020	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_020	Chloroform	<0.05 U	<0.24 U

Main - Kitchen- by rear entrance





U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

SUMMARY OF SAMPLING OF INDOOR SOURCES - QUANTITATIVE REPORT

Address: 1035 North Cleveland Avenue

Location ID: P34

Sample Time: 3/8/2012 3:38:00 PM

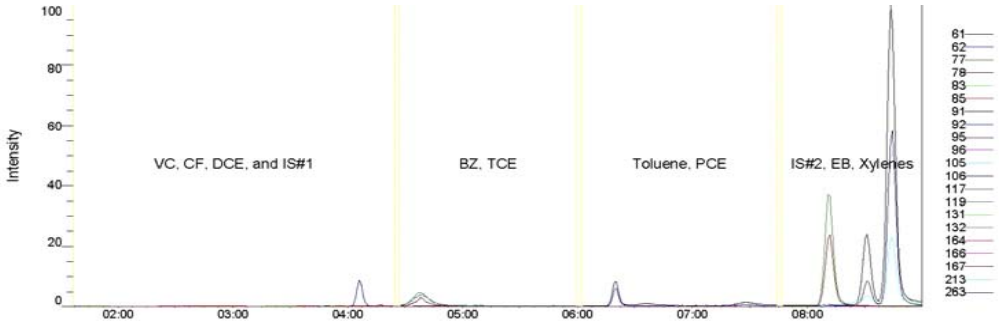
Sample Type: Sample

Sample Task: Regular Sampling

Sample File Name: SIMQuantNIC_20120308_021.hps

Sample Name	Analyte	Result (ppb)	Result (ug/m3)
SIMQuantNIC_20120308_021	Benzene	<0.05 U	<0.16 U
SIMQuantNIC_20120308_021	PCE	<0.11 U	<0.75 U
SIMQuantNIC_20120308_021	Chloroform	<0.05 U	<0.24 U

Main - Kitchen- by rear entrance

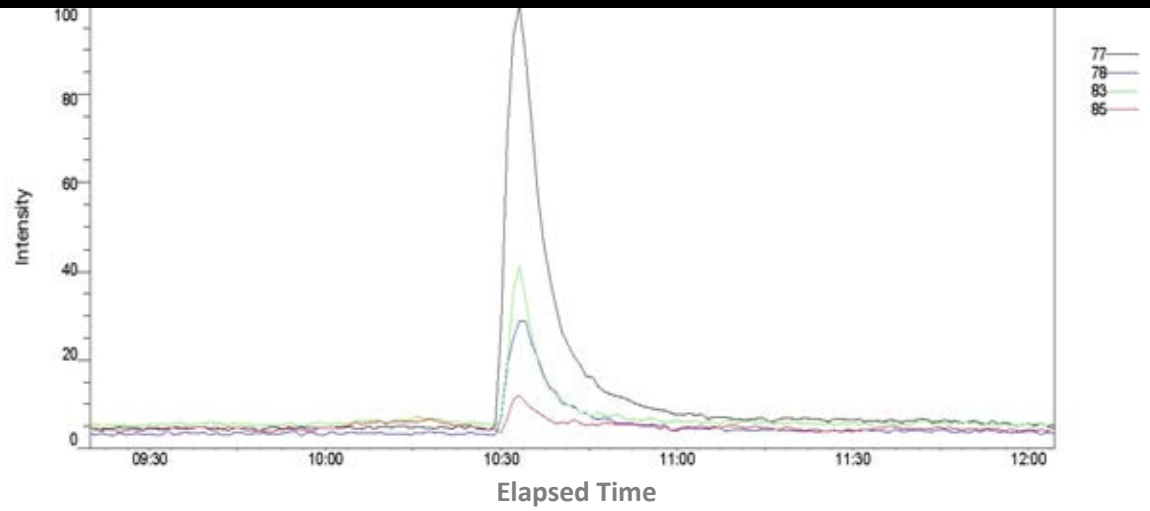


U – The compound was analyzed but not detected. No concentration was quantified by the instrument.
N – The compound was "tentatively identified" based on instrument response, but no concentration was quantified by the instrument software.
J – Estimated concentration. The compound was detected at the concentration less than the Lower Calibration Limit, therefore the associated numerical value is the approximate concentration of the analyte in the sample.

Address: 1035 North Cleveland Avenue
Property ID: P34
Location: Kitchen
Method: CFM+BZSurvey
Start Time: 2:00 PM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
10:30	Lavender Vanilla Air Refresher Gel beads	Peak	Chloroform	Possible Source	
10:30	Lavender Vanilla Air Refresher Gel beads	Peak	Benzene	Possible Source	

Spectrogram: CFM+BZSurvey_20120308_001



Benzene Identifying Ions: 77 (black), 78 (blue)
Chloroform Identifying Ions: 83 (green), 85 (red)

†Level of Confidence in Source Identification:

Address: 1035 North Cleveland Avenue

Property ID: P34

Location: Kitchen

Method: CFM+BZSurvey

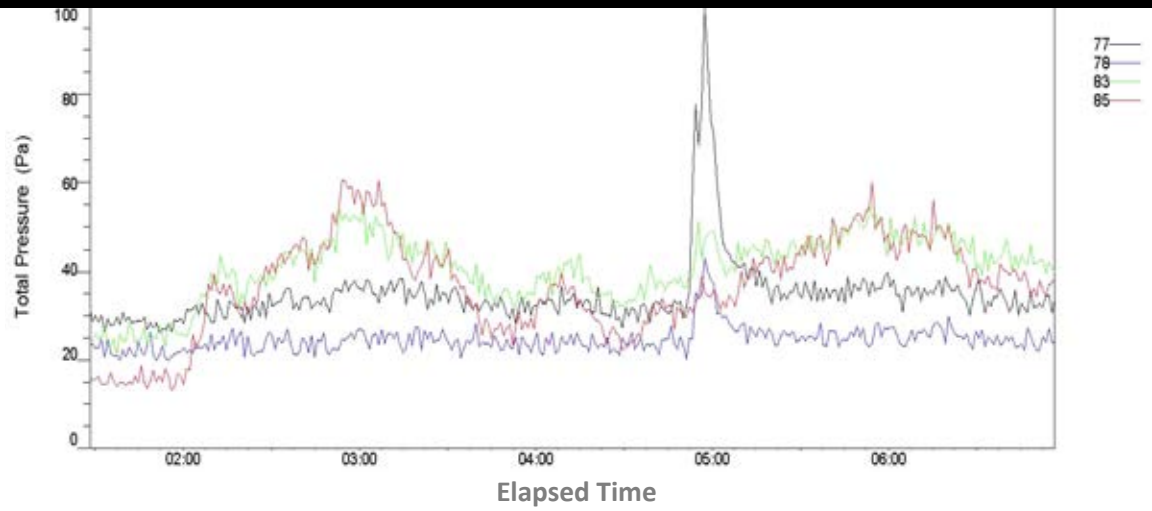
Start Time: 2:00 PM

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Address: 1035 North Cleveland Avenue
Property ID: P34
Location: Kitchen
Method: CFM+BZSurvey
Start Time: 2:00 PM

Summary of Sampling of Indoor Sources: HAPSITE Survey Results					
Elapsed Time	**Source**	**Survey Result**	**Suspected Compound**	**Level of Confidence in Source Identification†**	**Picture of Product**
2:00-3:30	Orange Glo Wood Furniture 2-in-1 Polish	Rise in Baseline	Chloroform	Possible Source	
4:45	Fabuloso Cleaner	Peak	Benzene	Possible Source	

Spectrogram: CFM+BZSurvey_20120308_001



Benzene Identifying Ions: 77 (black), 78 (blue)
Chloroform Identifying Ions: 83 (green), 85 (red)

†Level of Confidence in Source Identification:

Address: 1035 North Cleveland Avenue

Property ID: P34

Location: Kitchen

Method: CFM+BZSurvey

Start Time: 2:00 PM

1) Possible Source - Instrument response with ion ratio outside expected range or both the primary and secondary masses were not found.
2) Likely Source - Instrument response with ion ratio inside expected range.
3) Confirmed Source - Instrument response with ion ratio inside expected range and compound listed as an ingredient on product label.

Attachment A

Continuing Calibration Verification (CCV) Standard Summary

Continuing Calibration Verification (CCV) Standard Summary

Sample ID	Collection Date	Prepared Standard Concentration	Benzene			Chloroform			PCE		
			ppbv	µg/m^3	%D	ppbv	µg/m^3	%D	ppbv	µg/m^3	%D
SIMQuantNIC_20120307_001	3/7/2012	1 ppbv	1.240	3.961	21.429	0.881	4.302	12.653	1.448	9.821	36.601
SIMQuantNIC_20120308_001	3/8/2012	1 ppbv	1.790	5.718	56.631	1.500	7.324	40.000	0.695	4.714	35.988

%D= Percent Difference

$$\%D = \left| \frac{Actual - Theoretical}{\left(\frac{Actual + Theoretical}{2}\right)} \right| \times 100$$

Attachment B

Method Blanks Summary

Method Blanks Summary

Sample ID	Collection Date		Benzene			Chloroform			PCE		
			ppbv	µg/m^3	Flag	ppbv	µg/m^3	Flag	ppbv	µg/m^3	Flag
SIMQuantNIC_20120307_003	3/7/2012	Daily Check	<0.05	<0.16	U	<0.05	<0.24	U	<0.11	<0.75	U
SIMQuantNIC_20120307_009	3/7/2012	QA/QC	<0.05	<0.16	U	<0.05	<0.24	U	<0.11	<0.75	U
SIMQuantNIC_20120308_003	3/8/2012	Daily Check	<0.05	<0.16	U	<0.05	<0.24	U	<0.11	<0.75	U
SIMQuantNIC_20120308_013	3/8/2012	QA/QC	<0.05	<0.16	U	<0.05	<0.24	U	<0.11	<0.75	U

U – The compound was analyzed but not detected. No concentration was quantified by the instrument.

Note: Initial Method Blanks were analyzed to show the system was free of contamination prior to investigative sample collection. Additional method blanks were analyzed after elevated concentrations of one of the COPCs were observed or between properties to ensure the system was free of contamination and no carry-over was observed.

Appendix D
Building Questionnaires/Product Inventories, Phase 3

Kansas Department of Health and Environment

Bureau of Environmental Remediation
Indoor Air Sampling Form

Project Name: NIC Site-wide VI	Sample Date: 3/7/12
Property ID: 1105 E 12th St N, Apt 100A	Sampler: M. Williams

Sample Information

	Sample Location:	Sample ID:	Canister Number:
(1)	Living room	IAS-NIC-1105E12TH-030712	#5589
(2)			
(3)			
(4)			* KDHE split

Environmental Conditions

Outdoor Temperature: 60s to low 70s	Barometric Pressure: 29.8"	Relative Humidity: 67
Wind Speed: 23 mph	Wind Direction: SSW	

Preliminary Screening

Instrumentation:	Calibration Date:	Calibration Time:
Location 1:	Reading 1:	
Location 2:	Reading 2:	
Location 3:	Reading 3:	
Location 4:	Reading 4:	

Air Sample Detail

	Start Time:	Initial Vacuum:	End Time:	Final Vacuum:	Flow Controller Number:
(1)	1205	-28.5" Hg	1046	-7.5" Hg	#5589
(2)					
(3)					
(4)					

Note: This form is to be completed for each residence involved in indoor air sampling activities. Page 3 of the form provides space for additional notes or comments.

L01

Property ID: _____

Indoor Air Sampling Form – Page 2

Resident/Owner Information

	Occupant Name:	Age:	Length of Occupancy:
(1)	Carol Burnett	62	Since June 28, 2011
(2)			
(3)			
(4)			
(5)			

Mailing Address: 1105 E 12th St N. #100A | Phone Number:

Smokers: ☐ Yes ☒ No | If yes, type (cigars, pipe, cigarettes) & frequency (#/day):

Do occupants use dry cleaning service? ☐ Weekly ☐ Monthly ☒ Not at All

Property Owner (if different):

Owner's Mailing Address: | Owner's Phone Number:

Chemicals Used or Stored In the Residence

Chemical Type:	Used or Stored:	If yes, what type, when, & where stored:	
Paint, Paint Thinners, or Varnishes	☐ Yes ☒ No		
Gas-Powered Equipment	☐ Yes ☒ No	Kitchen & Bathroom	Laundry room
Gasoline	☐ Yes ☒ No	Cascade	Clorox bleach
Pesticides	☒ Yes ☒ No	Pine power classic	Oxydol
Cleaning Solvents	☒ Yes ☐ No	Lysol wipes	All oxiactive
Cleaning Products	☒ Yes ☐ No	Glass cleaner - Family Dollar	Faultless heavy starch
Carpet/Upholstery Cleaners	☒ Yes ☐ No	Dawn	Arm & Hammer detergent & softener
Moth Balls	☐ Yes ☒ No	Comet	Arm & Hammer carpet odor eliminator
Air Fresheners	☒ Yes ☐ No	DG home heavy duty oven cleaner	Gain detergent
Hobby Supplies	☐ Yes ☒ No	DG furniture polish	
Cosmetic Products	☒ Yes ☐ No	Clorox bleach	
Other: _____		Glade air freshener	Bathroom
		Spray (bathroom)	cosmetics
			nail polish remover
			dawn
			equate hand soap
			baby oil
			vasoline
			mouth rinse
			var. lotions & soaps.
			jewelry cleaner - Hannoush (in cabinet by tub)
			One day jewelry repair

Note: To the extent possible, the products listed above should not be used in the residence for at least 48 hours before sampling to avoid background interferences.

p2

LØ1

Property ID: _____

Indoor Air Sampling Form – Page 3

Building Information

Building Type: 4-plex	Year Constructed: 1950	Foundation Type: crawlspace
Foundation Walls: n/a	Foundation Cracks: n/a	Basement Moisture: n/a
Basement Flooring: n/a	Floor Drains: n/a	Basement (% Finished): n/a
Basement Occupancy: n/a ☐ Full-time	☐ Occasionally ☐ Seldom	☐ Almost Never
Private Well: ☐ Yes ☒ No	Well Use:	Sump: ☐ Yes ☒ No
Cistern: ☐ Yes ☒ No	Attached Garage: ☐ Yes ☒ No	
Radon Mitigation System Installed: ☒ Yes ☐ No	If yes, what type:	
Recent Remodeling: ☐ Yes ☒ No	If yes, what activities:	

Primary Water Supply:	☒ Public Water ☐ Private Well	☐ Other: _____
Sewage Disposal:	☒ Public Sewer ☐ Septic Tank	☐ Leach Field ☐ Other: _____
Type of Heating System(s): (check all that apply)	☒ Hot Air Circulation ☐ Heat Pump ☐ Hot Air Radiation ☐ Steam Radiation	☐ Wood Stove/Fireplace ☐ Gas Fireplace ☐ Kerosene Space Heater ☐ Electric Baseboard Heat
Fuel Type(s): (Check all that apply)	☒ Natural Gas ☐ Propane ☐ Electric ☐ Fuel Oil	☐ Solar ☐ Coal ☐ Other: _____
Type of Cooling and Ventilation System(s): (Check all that apply)	☒ Central Air Conditioning ☐ Window Air Conditioning ☐ Mechanical Fans ☐ Bathroom Exhaust Fan ☐ Kitchen Exhaust Fan	☐ Air to Air Exchanger ☐ Attic Fan ☐ Whole House Fan ☐ Open Windows ☐ Other: _____

Other Comments

Hapsite performed
-background CFM, no specific source found.

Bon = 3.12 = 0.97662 (3.2)

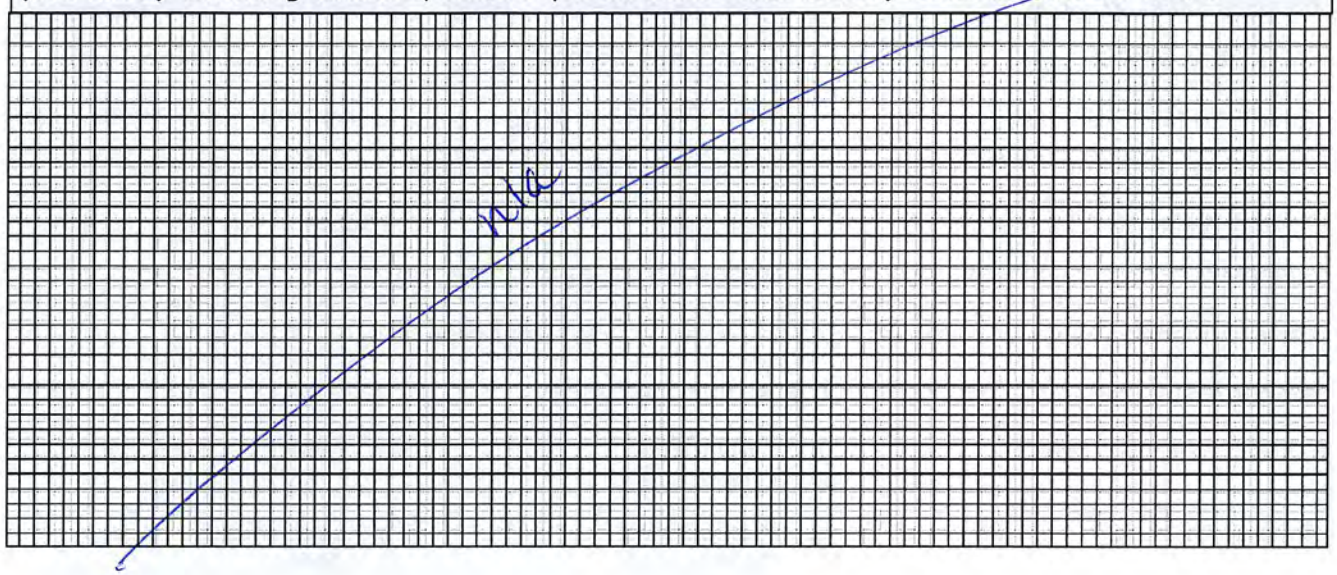
CFF = 1.06 = 0.2171 (4.9)
Tier 2
µg/m3

Property ID: _____

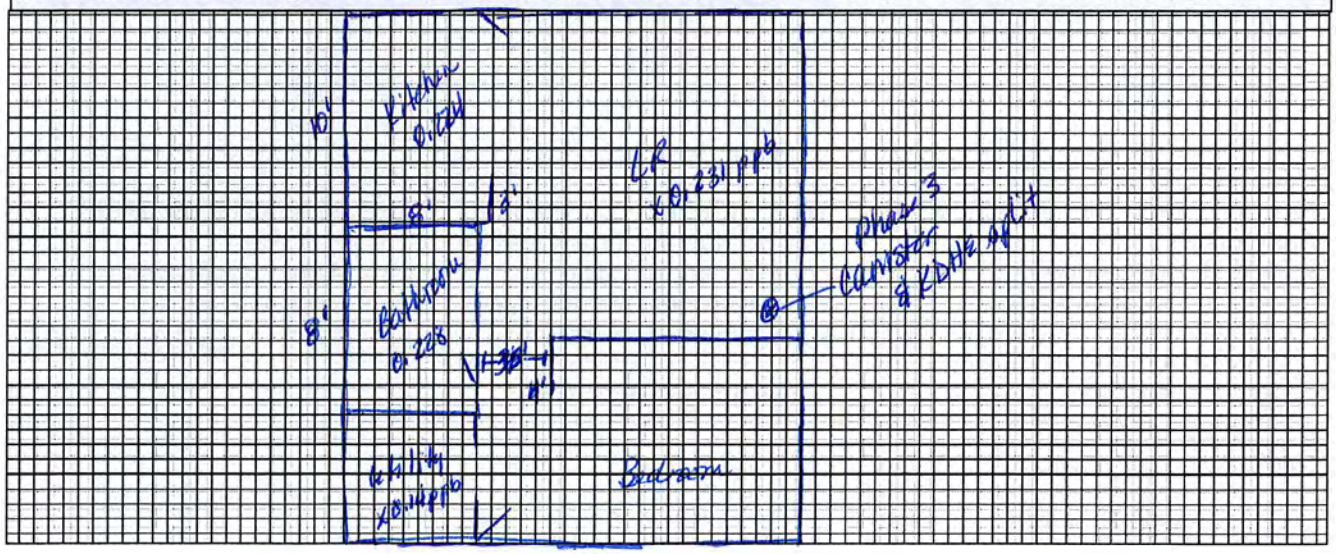
Indoor Air Sampling Form – Page 4

Floor Plans

Basement Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.



First Floor Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.



1.6 µg/m3 CFM
Phase II

BL45

Kansas Department of Health and Environment

Bureau of Environmental Remediation
Indoor Air Sampling Form

Project Name:	Nic Sit-wide V1	Sample Date:	3/7/12
Property ID:	1347 N. Mathewson	Sampler:	M. Williams

Sample Information

	Sample Location:	Sample ID:	Canister Number:
1L → (1)	Tote containing: bleach, Mean green, soft scrub	IAGS-NIC-1347MATH-030712	# 34156 - 1L grab samp
(2)	Living room	IAS-NIC-1347MATH-LVR ~~-030712~~ 031212	# 24993
(3)	Basement	IAS-NIC-1347MATH-BSMT-031212	# 5632
(4)			

Environmental Conditions

Outdoor Temperature: 60s to low 70s	Barometric Pressure: 29.84"	Relative Humidity: 67
Wind Speed: 23mph	Wind Direction: SSW	

Preliminary Screening

Instrumentation:	Calibration Date:	Calibration Time:
Location 1:	Reading 1:	
Location 2:	Reading 2:	
Location 3:	Reading 3:	
Location 4:	Reading 4:	

Air Sample Detail

		Start Time:	Initial Vacuum:	End Time:	Final Vacuum:	Flow Controller Number:
1L grab –	(1)	1700	-29" Hg	1700	-2" Hg	n/a
LVR	(2)	1017	-27" Hg	0942	-5.6" Hg	# 24993
BSMT	(3)	1018	-28" Hg	0943	-6.5" Hg	# 5632
	(4)					

Note: This form is to be completed for each residence involved in indoor air sampling activities. Page 3 of the form provides space for additional notes or comments.

Property ID: _____

Indoor Air Sampling Form – Page 2

Resident/Owner Information

	Occupant Name:	Age:	Length of Occupancy:
(1)	L. Nolan		
(2)			
(3)			
(4)			
(5)			

Mailing Address: Phone Number:

Smokers: ☐ Yes ☒ No If yes, type (cigars, pipe, cigarettes) & frequency (#/day):

Do occupants use dry cleaning service? ☐ Weekly ☐ Monthly ☒ Not at All

Property Owner (if different):

Owner's Mailing Address: Owner's Phone Number:

Chemicals Used or Stored In the Residence

Chemical Type:	Used or Stored:	If yes, what type, when, & where stored:
Paint, Paint Thinners, or Varnishes	☒ Yes ☐ No	cans in bsmt laundry room
Gas-Powered Equipment	☒ Yes ☐ No	garage
Gasoline	☒ Yes ☐ No	garage
Pesticides	☒ Yes ☐ No	kitchen cabinet
Cleaning Solvents	☒ Yes ☐ No	
Cleaning Products	☒ Yes ☐ No	
Carpet/Upholstery Cleaners	☒ Yes ☐ No	
Moth Balls	☒ Yes ☒ No	
Air Fresheners	☒ Yes ☐ No	throughout, candles
Hobby Supplies	☒ Yes ☐ No	stick glue
Cosmetic Products	☒ Yes ☐ No	
Other: _____		

Note: To the extent possible, the products listed above should not be used in the residence for at least 48 hours before sampling to avoid background interferences.

Kitchen & bathrooms
misc cleaners
drano

Bsmt laundry room & bathrm
tote
- (*) bleach - Great Value Rainscent *
- (*) mean green mildew destroyer *
- clorox cleanup
- (*) soft scrub w/ bleach *
- great value cleaner w/ bleach
- great value disinfectant foaming bathroom cleaner
- great value detergent
- suavitel
- paint/stain/etc. cans - mostly empty
- sneaker protection
- Downy unstoppables *
- caulking, joint compound

* moved these & others to garage during sampling.

Property ID: _____

Indoor Air Sampling Form – Page 3

Building Information

Building Type: Single-family	Year Constructed: 1994	Foundation Type: Basement
Foundation Walls: Can't tell - covered	Foundation Cracks: Some	Basement Moisture: none
Basement Flooring: Concrete w/ carpet scraps	Floor Drains: yes - b/w water heater & pump	Basement (% Finished): 100%
Basement Occupancy: ☒ Full-time	☐ Occasionally ☐ Seldom	☐ Almost Never
Private Well: ☐ Yes ☒ No	Well Use:	Sump: ☒ Yes ☐ No w/ standing wtr
Cistern: ☐ Yes ☒ No	Attached Garage: ☐ Yes ☒ No Detached	
Radon Mitigation System Installed: ☐ Yes ☒ No	If yes, what type:	
Recent Remodeling: ☐ Yes ☒ No	If yes, what activities:	

Primary Water Supply:	☒ Public Water ☐ Private Well	☐ Other: _____
Sewage Disposal:	☒ Public Sewer ☐ Septic Tank	☐ Leach Field ☐ Other: _____
Type of Heating System(s): (check all that apply)	☒ Hot Air Circulation ☐ Heat Pump ☐ Hot Air Radiation ☐ Steam Radiation	☐ Wood Stove/Fireplace ☐ Gas Fireplace ☐ Kerosene Space Heater ☐ Electric Baseboard Heat
Fuel Type(s): (Check all that apply)	☒ Natural Gas ☐ Propane ☐ Electric ☐ Fuel Oil	☐ Solar ☐ Coal ☐ Other: _____
Type of Cooling and Ventilation System(s): (Check all that apply)	☒ Central Air Conditioning ☐ Window Air Conditioning ☐ Mechanical Fans ☐ Bathroom Exhaust Fan ☐ Kitchen Exhaust Fan	☐ Air to Air Exchanger ☐ Attic Fan ☐ Whole House Fan ☐ Open Windows ☐ Other: _____

Other Comments

Hapsite performed - found CFM - mostly near bsmt laundry room, but ambient in bsmt & main floor. No CFM in sump.

- removed several products to detached garage on 3/7. Resurvey w/ Hapsite on 3/8. Bsmt less but still elevated. Less in main floor.

Set canister sampling up for Monday. Teddy to unplug all air fresheners & limit/not burn candles until after.

Property ID: _____

Indoor Air Sampling Form – Page 4

Floor Plans

Basement Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.

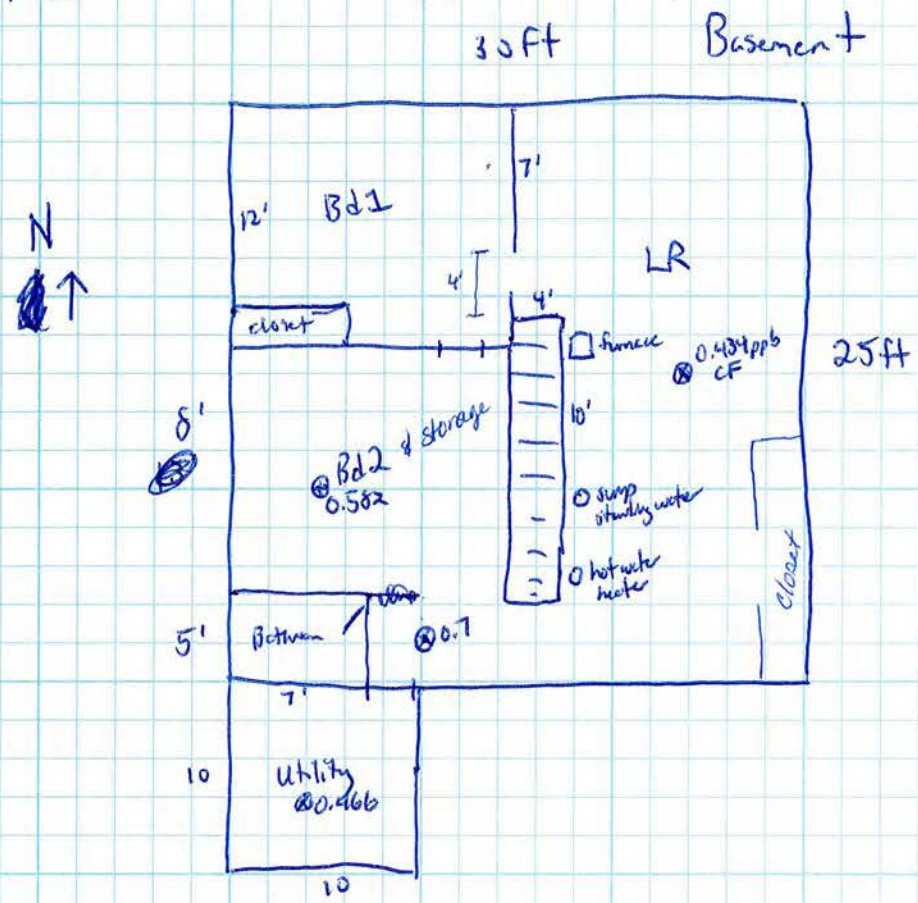
See separate page

First Floor Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.

CDM

CLIENT _____ JOB NO. _____ COMPUTED BY _____
PROJECT _____ DATE CHECKED _____ DATE _____
DETAIL _____ CHECKED BY _____ PAGE NO. _____

~~P45~~ 245 1347 N. Metheson



2.7 ug/m3 CFM phase 2

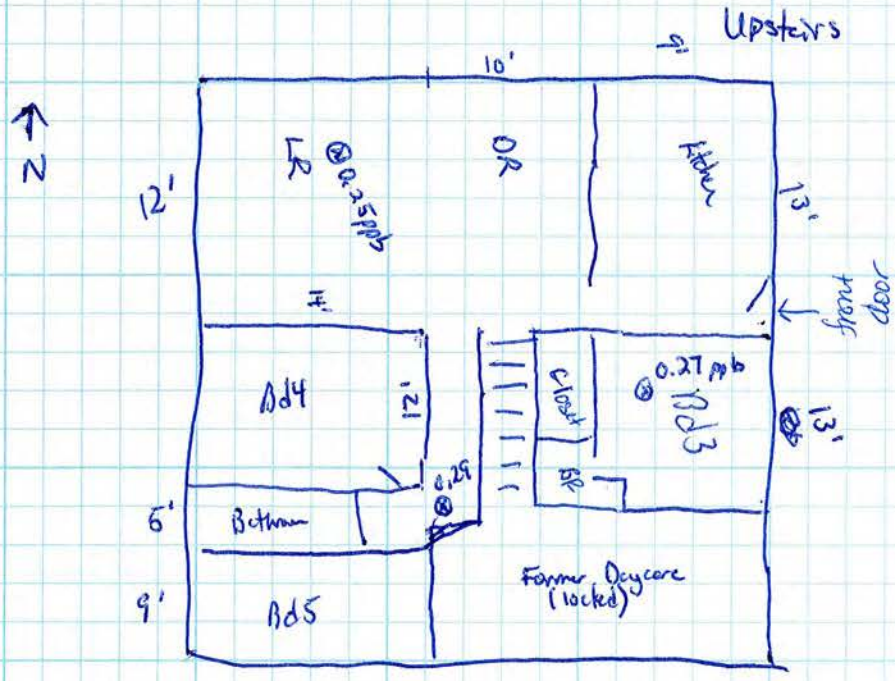
Downy Unstoppables Invisible Scent Booster

Great Value Rain Scent Bleach

Mean Green Mildew Destroyer

Utility room grout sample is 1.0 ppb
Soft Scrub with bleach
Clorox Clean-up w/bleach

13 of 10



LB25

Kansas Department of Health and Environment

Bureau of Environmental Remediation
Indoor Air Sampling Form

Project Name: NIC Sitewide VI	Sample Date: 3/8/12
Property ID: 1402 E Arnold	Sampler: M. Williams

Sample Information

	Sample Location:	Sample ID:	Canister Number:
(1)	Living room - by fireplace by front door	IAS-NIC-1402ARN-LVR-030812	#24486
(2)	Crawl space	IAS-NIC-1402ARN-CLX-030812	#4353
(3)			
(4)			

Environmental Conditions

Outdoor Temperature: 30s to 50	Barometric Pressure: 30.32"	Relative Humidity: 66
Wind Speed: 14mph	Wind Direction: N	

Preliminary Screening

Instrumentation:	Calibration Date:	Calibration Time:
Location 1:	Reading 1:	
Location 2:	Reading 2:	
Location 3:	Reading 3:	
Location 4:	Reading 4:	

Air Sample Detail

		Start Time:	Initial Vacuum:	End Time:	Final Vacuum:	Flow Controller Number:
LVR	(1)	1032	-28" Hg	-3" Hg	1034	#24486
CLX	(2)	1032	-28" Hg	-5.5" Hg	1034	#4353
	(3)					
	(4)					

Note: This form is to be completed for each residence involved in indoor air sampling activities. Page 3 of the form provides space for additional notes or comments.

Property ID: _____

Indoor Air Sampling Form – Page 2

Resident/Owner Information

	Occupant Name:	Age:	Length of Occupancy:
(1)	J. & D. Fletcher	26 (both husband & wife)	Since 2007
(2)	4 kids: 5, 4, 2, 1		
(3)			
(4)			
(5)			

Mailing Address: Phone Number:

Smokers: ☐ Yes ☒ No If yes, type (cigars, pipe, cigarettes) & frequency (#/day):

Do occupants use dry cleaning service? ☐ Weekly ☐ Monthly ☒ Not at All

Property Owner (if different):

Owner's Mailing Address: Owner's Phone Number:

Chemicals Used or Stored In the Residence

Chemical Type:	Used or Stored:	If yes, what type, when, & where stored:
Paint, Paint Thinners, or Varnishes	☒ Yes ☐ No	Spare bedroom, Laundry room
Gas-Powered Equipment	☐ Yes ☒ No	
Gasoline	☐ Yes ☒ No	
Pesticides	☒ Yes ☐ No	Orkin every 3 mo; ant spray in kitchen
Cleaning Solvents	☒ Yes ☐ No	
Cleaning Products	☒ Yes ☐ No	
Carpet/Upholstery Cleaners	☐ Yes ☐ No	
Moth Balls	☐ Yes ☒ No	
Air Fresheners	☒ Yes ☐ No	bath & body works plugins - living room; Lysol auto spray fresheners
Hobby Supplies	☐ Yes ☒ No	glue sticks
Cosmetic Products	☒ Yes ☐ No	
Other: _____		

Kitchen: dawn, ajax, cascade, windex, clorox bathroom cleaner, disinfectant spray, etc.; heat, starter fluid, polish; lysol auto air freshener on wall. neutra air; irmont

Laundry room: detergents, etc.; lysol toilet bowl cleaner w/ bleach removed

Note: To the extent possible, the products listed above should not be used in the residence for at least 48 hours before sampling to avoid background interferences.

225

Property ID: _____

Indoor Air Sampling Form – Page 3

Building Information

Building Type: Single-family	Year Constructed: 1955	Foundation Type: crawl space
Foundation Walls: n/a	Foundation Cracks: n/a	Basement Moisture: n/a
Basement Flooring: n/a	Floor Drains: n/a	Basement (% Finished): n/a
Basement Occupancy: n/a ☐ Full-time	☐ Occasionally ☐ Seldom	☐ Almost Never
Private Well: ☐ Yes ☒ No	Well Use:	Sump: ☐ Yes ☒ No
Cistern: ☐ Yes ☒ No	Attached Garage: ☐ Yes ☒ No Detached	
Radon Mitigation System Installed: ☐ Yes ☒ No	If yes, what type:	
Recent Remodeling: ☒ Yes ☐ No	If yes, what activities: living room – last year – also bathroom remod incl new flooring; playroom – recent	

Primary Water Supply:	☒ Public Water ☐ Private Well	☐ Other: _____
Sewage Disposal:	☒ Public Sewer ☐ Septic Tank	☐ Leach Field ☐ Other: _____
Type of Heating System(s): (check all that apply)	☒ Hot Air Circulation ☐ Heat Pump ☐ Hot Air Radiation ☐ Steam Radiation	☐ Wood Stove/Fireplace ☐ Gas Fireplace ☐ Kerosene Space Heater ☐ Electric Baseboard Heat
Fuel Type(s): (Check all that apply)	☒ Natural Gas ☐ Propane ☐ Electric ☐ Fuel Oil	☐ Solar ☐ Coal ☐ Other: _____
Type of Cooling and Ventilation System(s): (Check all that apply)	☒ Central Air Conditioning ☐ Window Air Conditioning ☐ Mechanical Fans ☐ Bathroom Exhaust Fan ☐ Kitchen Exhaust Fan	☐ Air to Air Exchanger ☐ Attic Fan ☐ Whole House Fan ☐ Open Windows ☐ Other: _____

Other Comments

Hap site performed - not really any detects, i.e., couldn't find source for Ph2 CFM exceedance. Removed Lysol toilet bowl cleaner w/ bleach before Ph3 canister sampling.

P3

Property ID: ____________________

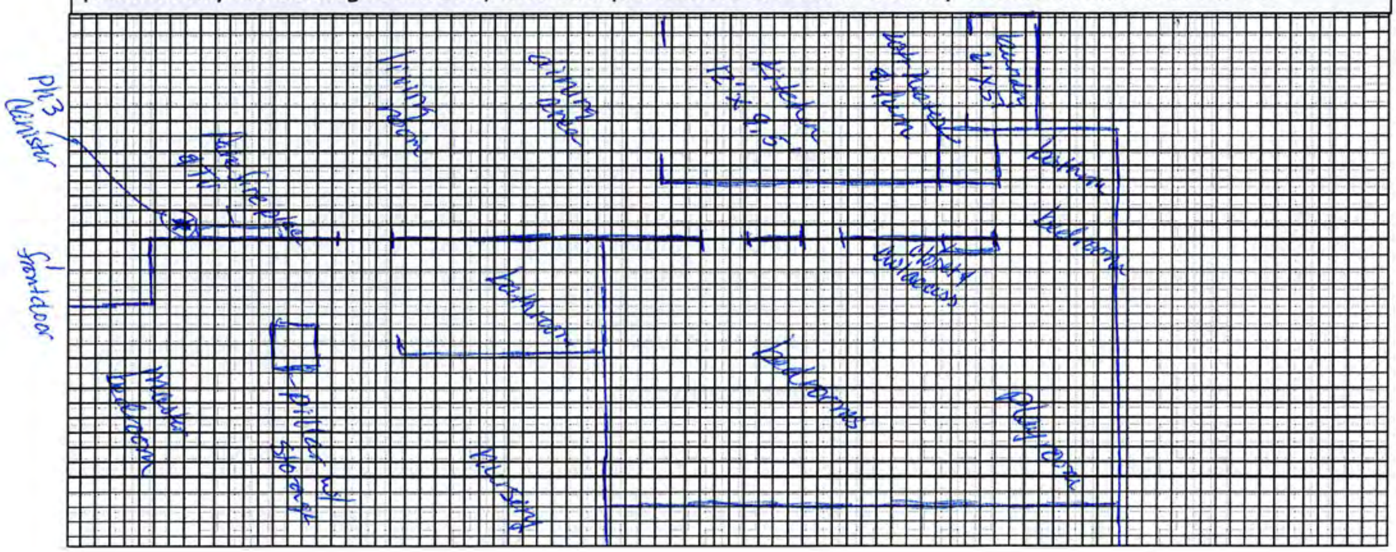
Indoor Air Sampling Form – Page 4

Floor Plans

Basement Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.

NA

First Floor Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.



N

L34

Kansas Department of Health and Environment

Bureau of Environmental Remediation
Indoor Air Sampling Form

Project Name:	NK Site-wide VI	Sample Date:	3/8/12
Property ID:	1035 N. Cleveland	Sampler:	M. Williams

Sample Information

	Sample Location:	Sample ID:	Canister Number:
(1)	Basement	IAS-NIC-1035CLEV-BSMT-030812	#5682
(2)	Living room	IAS-NIC-1035CLEV-LVR-030812	#5667
(3)			
(4)			

Environmental Conditions

Outdoor Temperature: 30s to 50	Barometric Pressure: 30.32"	Relative Humidity: 66
Wind Speed: 14mph	Wind Direction: N	

Preliminary Screening

Instrumentation:	Calibration Date:	Calibration Time:
Location 1:	Reading 1:	
Location 2:	Reading 2:	
Location 3:	Reading 3:	
Location 4:	Reading 4:	

Air Sample Detail

		Start Time:	Initial Vacuum:	End Time:	Final Vacuum:	Flow Controller Number:
Bsmt	(1)	1644	-29" Hg	1428	-8.5" Hg	#5682
LVR	(2)	1657	-28" Hg	1429	-7.5" Hg	#5667
	(3)					
	(4)					

Note: This form is to be completed for each residence involved in indoor air sampling activities. Page 3 of the form provides space for additional notes or comments.

L34

Property ID: _____

Indoor Air Sampling Form – Page 2

Resident/Owner Information

	Occupant Name:	Age:	Length of Occupancy:
(1)	M. Brand	54	7yrs
(2)			
(3)			
(4)			
(5)			

Mailing Address: Phone Number:

Smokers: ☐ Yes ☒ No If yes, type (cigars, pipe, cigarettes) & frequency (#/day):

Do occupants use dry cleaning service? ☐ Weekly ☐ Monthly ☒ Not at All

Property Owner (if different):

Owner's Mailing Address: Owner's Phone Number:

Chemicals Used or Stored In the Residence

Chemical Type:	Used or Stored:	If yes, what type, when, & where stored:
Paint, Paint Thinners, or Varnishes	☒ Yes ☐ No	garage
Gas-Powered Equipment	☒ Yes ☐ No	garage
Gasoline	☒ Yes ☐ No	garage
Pesticides	☒ Yes ☐ No	
Cleaning Solvents	☒ Yes ☐ No	kitchen – var. orange glo windex etc.
Cleaning Products	☒ Yes ☐ No	
Carpet/Upholstery Cleaners	☒ Yes ☐ No	
Moth Balls	☐ Yes ☒ No	
Air Fresheners	☒ Yes ☐ No	Glade – by TV, etc.
Hobby Supplies	☐ Yes ☒ No	
Cosmetic Products	☒ Yes ☐ No	
Other: _____	Rug Dr. carpet cleaner mighty pro	

Basement
Grain
Top job bleach
Arm & Hammer Oxyclean
Bonide spider & ground bee killer

Bathroom – main floor
scrubbing bubbles
lotions & soaps
mouthwash
windex

Note: To the extent possible, the products listed above should not be used in the residence for at least 48 hours before sampling to avoid background interferences.

Property ID: _____

Indoor Air Sampling Form – Page 3

Building Information

Building Type: Single-family	Year Constructed: 2003	Foundation Type: basement
Foundation Walls: can't tell - covered	Foundation Cracks: some	Basement Moisture: none
Basement Flooring: concrete	Floor Drains: by wtr heater	Basement (% Finished): 200%
Basement Occupancy: ☐ Full-time	☒ Occasionally curr. laundry only ☐ Seldom	☐ Almost Never
Private Well: ☐ Yes ☒ No	Well Use:	Sump: ☒ Yes ☐ No
Cistern: ☐ Yes ☒ No	Attached Garage: ☒ Yes ☐ No	
Radon Mitigation System Installed: ☐ Yes ☒ No	If yes, what type:	
Recent Remodeling: ☒ Yes ☐ No	If yes, what activities: just painted	

Primary Water Supply:	☒ Public Water ☐ Private Well	☐ Other: _____
Sewage Disposal:	☒ Public Sewer ☐ Septic Tank	☐ Leach Field ☐ Other: _____
Type of Heating System(s): (check all that apply)	☒ Hot Air Circulation ☐ Heat Pump ☐ Hot Air Radiation ☐ Steam Radiation	☐ Wood Stove/Fireplace ☐ Gas Fireplace ☐ Kerosene Space Heater ☐ Electric Baseboard Heat
Fuel Type(s): (Check all that apply)	☒ Natural Gas ☐ Propane ☐ Electric ☐ Fuel Oil	☐ Solar ☐ Coal ☐ Other: _____
Type of Cooling and Ventilation System(s): (Check all that apply)	☒ Central Air Conditioning ☐ Window Air Conditioning ☐ Mechanical Fans ☐ Bathroom Exhaust Fan ☐ Kitchen Exhaust Fan	☐ Air to Air Exchanger ☐ Attic Fan ☐ Whole House Fan ☐ Open Windows ☐ Other: _____

Other Comments

Hapsite performed

sump area & sump - no CFM or BEN - nor in laundry area

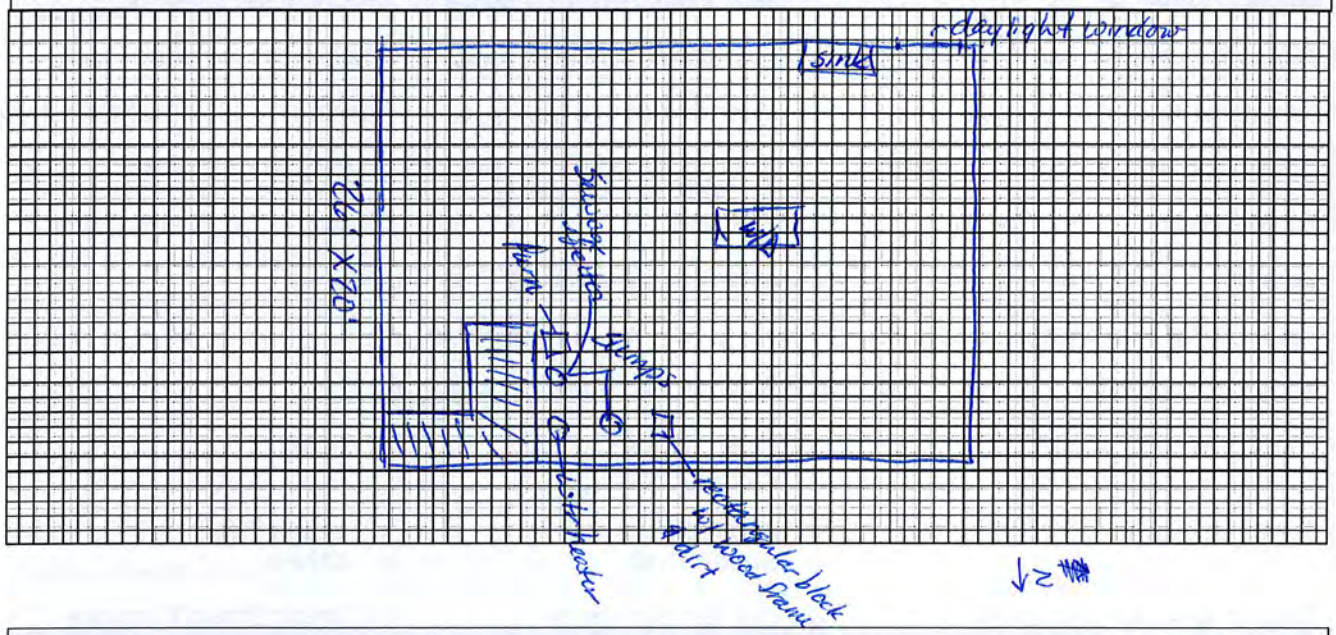
no detects like PhZ in bsmt or main floor except garage

Property ID: _____

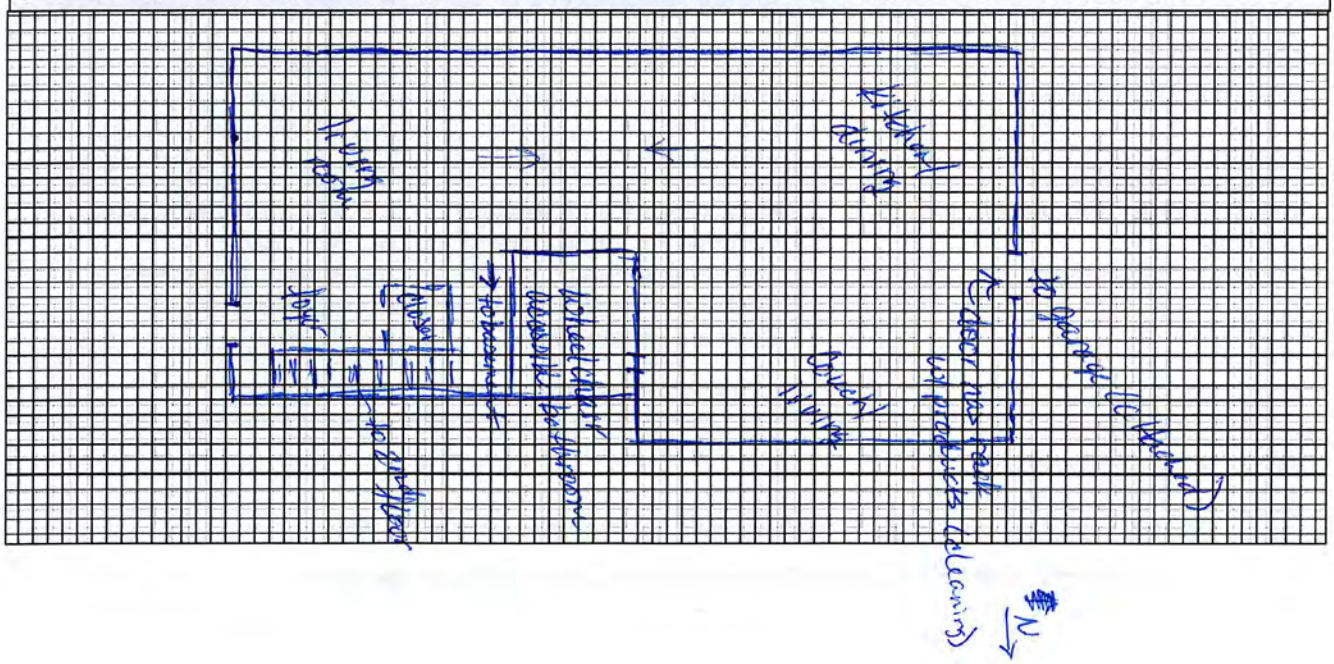
Indoor Air Sampling Form – Page 4

Floor Plans

Basement Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.



First Floor Layout: Identify furnace and water heater, chemical storage, indoor air pollution sources, preliminary screening locations, and sample locations. Also identify which direction is north.



2nd story is bedrooms (3) & bathrooms (2)
same type cleaning products - minimal

Appendix E
Data Validation Worksheets

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202020R1 Passive diffusion samplers
Laboratory: Air Toxics Ltd.

Matrix: Air
Collection date: 1/23/12 - 1/24/12 deployment
Analysis/Methods: Passive Ultra III (TD) - TO-17

		Lab ID:	CDM ID:
Samples in WO:	IAP-NIC-1105E12TH-012312	1202020R1-01A/01B	L01_PH2
	IAP-NIC-1247WABASH-012312	1202020R1-02A/02B	L02_PH2
	IAP-NIC-1155WABASH-012312	1202020R1-03A/03B	L03_PH2
	IAP-NIC-1152WABASH-012312	1202020R1-04A/04B	L04_PH2
	IAP-NIC-1311OHIO-012312	1202020R1-05A/05B	L05_PH2
	OAP-NIC-1154WABASH-012312	1202020R1-06A/06B	OA01_PH2
	IAP-NIC-1201E12TH-012312	1202020R1-07A/07B	L06_PH2
	IAP-NIC-1040WABASH-012412	1202020R1-08A/08B	L08_PH2
	IAP-NIC-1114WABASH-012412	1202020R1-09A/09B	L07_PH2
	IAP-NIC-1151OHIO-012412	1202020R1-10A/10B	L09_PH2
	IAP-NIC-1147OHIO-012412	1202020R1-11A/11B	L10_PH2
	IAP-NIC-1145OHIO-012412	1202020R1-12A/12B	L11_PH2
	IAP-NIC-1103OHIO-012412	1202020R1-13A/13B	L12_PH2

Volatile Organic Compounds

Lab Qualifiers:

E = Exceeds instrument calibration range
C = Estimated concentration due to calculated sampling rate

Affected Compounds

see Sensitivity section
Vinyl chloride (VC), 1,1-Dichloroethane (11DCA)
* in outdoor air (OAP) sample(s)

Accuracy:		**Yes No N/A**
Number of surrogates per sample analyzed	1	
Are surrogate % recoveries within laboratory determined control limits?		Yes
Are laboratory blank results all < RLs (reporting limits)?		Yes
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes
Are LCS/LCSD % recoveries within laboratory criteria?		Yes

Comments (note deviations):

1 lab blank, 1 CCV, 1 ea LCS & LCSD: no issues
Due to high concentrations of TOL and Heptane in several samples, some concentrations were reported from diluted analyses and high split QC samples were also run (1 lab blank high split, 1 CCV high split, 1 ea LCS & LCSD high splits)

Precision:	**Yes No N/A**
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?	N/A
Are LCS duplicate RPDs within laboratory control limits?	N/A

Comments (note deviations):

Comparability:	**Yes No N/A**
Are RLs < KDHE Tier 2 goals?	Yes

Comments (note deviations):

Representativeness:	**Yes No N/A**
Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	N/A
Were canisters certified 100% clean?	N/A
Were all blanks for passive diffusion samplers analyzed?	Yes

Comments (note deviations):

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202020R1 Passive diffusion samplers

Sensitivity:	**Yes**	**No**	**N/A**
Are MDLs present and reported?		No	
Are results above the linear range of the instrument?		Yes	

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding the instrument range are as follows:

Sample(s)	Compound
01A/B, 03A/B, 05A/B, 08A/B, 09A/B, 10A/B, 12A/B	2-Butanone (Methyl ethyl ketone) (MEK)
01A/B, 02A/B, 03A/B, 04A/B, 05A/B, 08A/B, 09A/B, 10A/B, 11A/B, 12A/B, 13A/B	Acetone (ACE)
11A/B	Benzene (BEN)
11A/B	Chloroform (CFM)
11A/B	Hexane (HEX)
01A/B, 02A/B, 03A/B, 05A/B, 07A/B, 08A/B, 10A/B, 11A/B, 12A/B, 13A/B	Toluene (TOL)
05A/B, 11A/B	m,p-Xylene (XYLMP)

Completeness (90%):	**Yes**	**No**	**N/A**
Were all samples analyzed?		Yes	
Are all data in this WO useable?		Yes	

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:	1202073	6L stainless steel canister sample(s)
Laboratory:	Air Toxics Ltd.	
Matrix:	Air	
Collection date:	1/25/12 & 1/31/12	
Analysis/Methods:	Modified TO-15	

		Lab ID:	CDM ID:
Samples in WO:	IAS-NIC-1208EMP-012512	1202073-01A	L12/C1_PH2
	IAS-NIC-1148INDIANA-012512	1202073-02A	L21/C2_PH2
	IAS-NIC-1420ARNOLD-012512	1202073-03A	L22/C3_PH2
	IAS-NIC-515MATH-013112	1202073-04A	L47/C4_PH2

Volatile Organic Compounds

Lab Qualifiers:	**Affected Compounds**
J = Estimated value due to bias in CCV	Chloromethane (CM)
E = Exceeds instrument calibration range	see Sensitivity section
UJ = Non-detected compound associated with low bias in CCV &/or LCS	CM
Q = Exceeds quality control limits	CM, Bromomethane (BM)

Accuracy:		**Yes No N/A**
Number of surrogates per sample analyzed	3	
Are surrogate % recoveries within laboratory determined control limits?		Yes
Are laboratory blank results all < RLs (reporting limits)?		Yes
Are continuing calibration verification (CCV) % recoveries within method limits?		No
Are LCS/LCSD % recoveries within laboratory criteria?		Yes

Comments (note deviations):

1 lab blank: CM qualified as "UJ". Some lab blank RLs > Tier 2 limits - see 05A under Comparability section
1 CCV: CM (68% vs. 70-130 control range), BM (140% vs. 70-130 control range) qualified as "Q"
1 LCS & 1 LCSD: CM %Rec w/in range; BM %Rec exceeds range but BM was ND in all samples therefore not qualified

Precision:	**Yes No N/A**
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?	N/A
Are LCS duplicate RPDs within laboratory control limits?	N/A

Comments (note deviations):

Comparability:	**Yes No N/A**
Are RLs < KDHE Tier 2 goals?	No

Comments (note deviations):

Chloroform (CFM): RL (1.4 µg/m3) in 01A; RLs (1.6 µg/m3) for CFM in 02A and 03A; and RL (1.1 µg/m3) for CFM in 04A exceed KDHE standard (1.06 µg/m3)

Other non-detect compounds with RLs > KDHE Tier 2 (05A is lab blank)

Sample(s)	Compound	RLs (µg/m3), respectively	KDHE Tier 2 (µg/m3)
01A, 02A, 03A	1,2-dichloroethane (12DCA)	1.2, 1.3, 1.3	0.936
01A, 02A, 03A, 04A, 05A	bromodichloromethane (BDCM)	2.0, 2.1, 2.1, 1.5, 0.67	0.658
01A, 02A, 03A	1,1,2-trichloroethane (112TCA)	1.6, 1.7, 1.7	1.52
01A, 02A, 03A, 04A, 05A	1,2-dibromoethane (EDB)	2.2, 2.4, 2.4, 1.7, 0.77	0.0406
01A, 02A, 03A, 04A, 05A	1,1,2,2-tetrachloroethane (1122PCA)	2.0, 2.2, 2.2, 1.5, 0.69	0.42
01A, 02A, 03A, 04A, 05A	alpha-chlorotoluene	1.5, 1.6, 1.6, 1.1, 0.52	0.497
01A, 02A, 03A, 04A, 05A	1,2,4-trichlorobenzene	11, 12, 12, 8.2, 3.7	2.09

Representativeness:	**Yes No N/A**
Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	Yes
Were canisters certified 100% clean?	Yes
Were all blanks for passive diffusion samplers analyzed?	N/A

Comments (note deviations):

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	No
Are results above the linear range of the instrument?	Yes

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding instrument range are: 2-Propanol (IPA) in 03A, Ethanol in 04A

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202073 6L stainless steel canister sample(s)

Completeness (90%):	**Yes**	**No**	**N/A**
Were all samples analyzed?	Yes		
Are all data in this WO useable?	Yes		

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202077R2 Passive diffusion samplers
Laboratory: Air Toxics Ltd.

Matrix: Air
Collection date: 1/25/2012 deployment
Analysis/Methods: Passive Ultra III (TD) - TO-17

Samples in WO:		Lab ID:	CDM ID:
	IAP-NIC-1208EMP-012512	1202077R2-01A/01B	L13/C1_PH2
	IAP-NIC-1141STFRAM-012512	1202077R2-02A/02B	L14_PH2
	OAP-NIC-1208EMP-012512	1202077R2-03A/03B	OA02_PH2
	IAP-NIC-1032OHIO-012512	1202077R2-04A/04B	L15_PH2
	IAP-NIC-1135EMP-012512	1202077R2-05A/05B	L17_PH2
	IAP-NIC-1135EMP**Q**-012512	1202077R2-06A/06B	L17_PH2 Duplicate
	OAP-NIC-1016WABASH-012512	1202077R2-07A/07B	OA03_PH2
	IAP-NIC-1139INDIANA-012512	1202077R2-08A/08B	L19_PH2
	IAP-NIC-1151INDIANA-012512	1202077R2-09A/09B	L20_PH2
	IAP-NIC-1148INDIANA-012512	1202077R2-10A/10B	L21/C2_PH2
	OAP-NIC-EMMCADPARK-012512	1202077R2-11A/11B	OA05_PH2
	IAP-NIC-1040INDIANA-012512	1202077R2-12A/12B	L16_PH2
	IAP-NIC-1402ARNOLD-012512	1202077R2-13A/13B	L25_PH2
	IAP-NIC-1420ARNOLD-012512	1202077R2-14A/14B	L22/C3_PH2
	IAP-NIC-1420ARNOLD**Q**-012512	1202077R2-15A/15B	L22/C3_PH2 Duplicate *See comment under Completeness
	OAP-NIC-1420ARNOLD-012512	1202077R2-16A/16B	OA06_PH2
	IAP-NIC-1414ARNOLD-012512	1202077R2-17A/17B	L23_PH2
	IAP-NIC-1415ARNOLD-012512	1202077R2-18A/18B	L24_PH2

Volatile Organic Compounds

Lab Qualifiers:	**Affected Compounds**
E = Exceeds instrument calibration range	see Sensitivity section
C = Estimated concentration due to calculated sampling rate	Vinyl chloride (VC), 1,1-Dichloroethane (11DCA) * in outdoor air (OAP) sample(s)
Q = Exceeds quality control limits	Surrogate %Rec in 09A

Accuracy:

		Yes No N/A
Number of surrogates per sample analyzed	1: 4-bromofluorobenzene	
Are surrogate % recoveries within laboratory determined control limits?		No
Are laboratory blank results all < RLs (reporting limits)?		Yes
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes
Are LCS/LCSD % recoveries within laboratory criteria?		Yes

Comments (note deviations):

1 lab blank, 1 CCV, 1 ea LCS & LCSD: no issues

Surr %Rec in 09A qualified by "Q" (144% vs. 70-130 control range). Surr %Rec in associated sample blank w/in range; however, associated compounds XYLMP and XYLO detected in both sample and sample blank.

Precision:

	Yes No N/A
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?	No
Are LCS duplicate RPDs within laboratory control limits?	N/A

* Comparison of low contaminant concentrations (<2xRL for water, <3xRL for air, & <5xRL for soils) often results in RPDs > limit. For results reported b/w the RL & 2xRL, 3xRL, or 5xRL, the absolute difference b/w the results should be < the actual RL.

Comments (note deviations): *See Table 3-5 for COPCs

Chloroform (CFM) in 05A/B vs. 06A/B exceeded the air RPD limit at 34%

Sample(s)	Orig. (µg/m3)	Dupl. (µg/m3)	RPD	RL & 3xRL (µg/m3)		Difference
1135 Emporia						
05A/B & 06A/B - CFM	0.24	0.17	**34%**	0.024	0.072	0.07

*Other compounds for 05A/B & 06A/B show < 30% for RPDs; therefore, no quals

Comparability:

	Yes No N/A
Are RLs < KDHE Tier 2 goals?	Yes

Comments (note deviations):

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202077R2 Passive diffusion samplers

Representativeness:	**Yes No N/A**
Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	N/A
Were canisters certified 100% clean?	N/A
Were all blanks for passive diffusion samplers analyzed?	Yes

Comments (note deviations):

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	No
Are results above the linear range of the instrument?	Yes

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding the instrument range are as follows:

Sample(s)	Compound
04A/B, 09A/B, 14A/B, 18A/B	2-Butanone (Methyl ethyl ketone) (MEK)
01A/B, 04A/B, 05A/B, 06A/B, 09A/B, 12A/B, 13A/B, 14A/B, 17A/B, 18A/B	Acetone (ACE)
04A/B	Ethylbenzene (EBN)
04A/B, 05A/B, 06A/B, 09A/B, 12A/B, 13A/B	Toluene (TOL)
04A/B	m,p-Xylene (XYLMP)

Completeness (90%):	**Yes No N/A**
Were all samples analyzed?	No
Are all data in this WO useable?	Yes

Comments (note deviations):

Duplicate sample 15A/B was lost during the sample preparation step and could not be analyzed.

Final Comments:

Reported concentrations for CFM in 05A/B & 06A/B are > 3xRL. In addition, the absolute difference b/w the original and duplicate values is > the actual RL. Therefore, CFM in 05A/B & 06A/B will be qualified using "J1" for "Estimated value due to RPD exceedence."
Reported concentrations for XYLMP and XYLO in 09A/B are qualified "J+" due to potential high bias as a result of surrogate percent recovery.
No other issues are noted and no additional qualifications are needed.

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:	1202124	Passive diffusion samplers
Laboratory:	Air Toxics Ltd.	
Matrix:	Air	
Collection date:	1/25/12 - 1/27/12 deployment	
Analysis/Methods:	Passive Ultra III (TD) - TO-17	

		Lab ID:	CDM ID:
Samples in WO:	OAP-NIC-DUNBARPARK-012512	1202124-01A/01B	OA04_PH2
	OAP-NIC-DUNBARPARK**Q**-012512	1202124-02A/02B	OA04_PH2 Duplicate
	OAP-NIC-1435STFRAN-012612	1202124-03A/03B	OA08_PH2
	IAP-NIC-1326IND-012612	1202124-04A/04B	L26_PH2
	IAP-NIC-1438EMPORIA-012612	1202124-05A/05B	L27_PH2
	IAP-NIC-1441STFRAN-012612	1202124-06A/06B	L28_PH2
	IAP-NIC-1511EMPORIA-012612	1202124-07A/07B	L29_PH2
	IAP-NIC-1240MATH-012612	1202124-08A/08B	L30_PH2
	OAP-NIC-1611EMPORIA-012612	1202124-09A/09B	OA09_PH2
	IAP-NIC-1155MATT-012612	1202124-10A/10B	L31_PH2
	IAP-NIC-1155MATT**Q**-012612	1202124-11A/11B	L31_PH2 Duplicate
	IAP-NIC-932WABASH-012612	1202124-12A/12B	L33_PH2
	IAP-NIC-1108MATT-012612	1202124-13A/13B	L32_PH2
	IAP-NIC-1035CLEV-012612	1202124-14A/14B	L34_PH2
	IAP-NIC-1048MATT-012612	1202124-15A/15B	L35_PH2
	IAP-NIC-1204STFRAN-012612	1202124-16A/16B	L36_PH2
	IAP-NIC-1102WABASH-012712	1202124-17A/17B	L37_PH2
	IAP-NIC-717MATT-012712	1202124-18A/18B	DC1-LR_PH2
	OAP-NIC-717MATT-012712	1202124-19A/19B	OA10_PH2
	IAP-NIC-1257OHIO-012712	1202124-20A/20B	L39_PH2

Volatile Organic Compounds

Lab Qualifiers:	**Affected Compounds**
E = Exceeds instrument calibration range	see Sensitivity section
C = Estimated concentration due to calculated sampling rate	Vinyl chloride (VC), 1,1-Dichloroethane (11DCA) * in outdoor air (OAP) sample(s)
Q = Exceeds quality control limits	VC in 3rd LCSD (LCS ok)
S = Saturated	Acetone (ACE), Toluene (TOL), m,p-Xylene (XYLMP) - see Sensitivity section

Accuracy:

		Yes	**No**	**N/A**
Number of surrogates per sample analyzed	1			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes		
Are LCS/LCSD % recoveries within laboratory criteria?			No	

Comments (note deviations):

3 lab blanks, 2 CCVs: no issues. 3 ea LCS & LCSD: no issues in sets 1 and 2, see below for 3rd LCSD

Due to high concentrations of TOL and several other compounds in some samples, some concentrations were reported from diluted analyses. 1 CCV High Split was also run.

%Rec for VC in 23CC (3rd LCSD) qualified by "Q" (133% vs. 70-130 control range); associated LCS w/in range

**VC detected in 1240 St Fran sample (L36_PH2)

Precision:

	Yes	**No**	**N/A**
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?		No	
* Comparison of low contaminant concentrations (<2xRL for water, <3xRL for air, & <5xRL for soils) often results in RPDs > limit. For results reported b/w the RL & 2xRL, 3xRL, or 5xRL, the absolute difference b/w the results should be < the actual RL.			
Are LCS duplicate RPDs within laboratory control limits?			N/A

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202124 Passive diffusion samplers

Comments (note deviations): *See Table 3-5 for COPCs

2-Butanone (Methyl ethyl ketone) (MEK) in 01A/B vs. 02A/B exceeded the air RPD limit at 56%

Benzene (BEN) in 10A/B vs. 11A/B exceeded the air RPD limit at 59%

Sample(s)	Orig. (µg/m3)	Dupl. (µg/m3)	RPD	RL & 3xRL (µg/m3)		Difference
Dunbar Park OAP						
01A/B & 02A/B - MEK	0.64	0.36	**56%**	0.33	0.99	0.28
*Other compounds for 01A/B & 02A/B show < 30% for RPDs; therefore, no quals						
1155 Mathewson						
10A/B & 11A/B - BEN	1.1	0.6	**59%**	0.3	0.9	0.5
*Other compounds for 10A/B & 11A/B show < 30% for RPDs; therefore, no quals						

Comparability:

	Yes	No	N/A
Are RLs < KDHE Tier 2 goals?	Yes		

Comments (note deviations):

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		
Were pre-set regulators provided and usable?	N/A		
Were canisters certified 100% clean?	N/A		
Were all blanks for passive diffusion samplers analyzed?	Yes		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?	No		
Are results above the linear range of the instrument?	Yes		

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding the instrument range are as follows:

Sample(s)	Compound
06A/B, 07A/B, 12A/B, 16A/B, 20A/B	2-Butanone (Methyl ethyl ketone) (MEK)
04A/B, 06A/B, 07A/B, 08A/B, 11A/B, 12A/B, 13A/B, 15A/B, 16A/B, 17A/B, 18A/B *Saturated, 20A/B	Acetone (ACE)
13A/B, 14A/B, 20A/B	Benzene (BEN)
14A/B	Cyclohexane
14A/B, 20A/B	Ethylbenzene (EBN)
14A/B	Heptane
04A/B, 13A/B, 14A/B	Hexane
06A/B, 08A/B, 12A/B, 13A/B, 14A/B *Saturated, 15A/B, 17A/B, 18A/B, 20A/B	Toluene (TOL)
04A/B, 13A/B, 14A/B *Saturated, 20A/B	m,p-Xylene (XYLMP)
14A/B	o-Xylene (XYLO)

Completeness (90%):

	Yes	No	N/A
Were all samples analyzed?	Yes		
Are all data in this WO useable?	Yes		

Comments (note deviations):

Final Comments:

Reported concentrations for MEK in 01A/B & 02A/B are < 3xRL. The absolute difference b/w the original and duplicate values is < the actual RL. Therefore, no qualifiers have been added.

Reported concentration for BEN in 10A/B is > 3xRL although it is < 3xRL in 11A/B. The absolute difference b/w the original and duplicate values is > the actual RL. Therefore, BEN in 10A/B & 11A/B will be qualified using "J1" for "Estimated value due to RPD exceedence."

No other issues are noted and no additional qualifications are needed.

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:		1202139	6L stainless steel canister sample(s)
Laboratory:		Air Toxics Ltd.	
Matrix:		Air	
Collection date:		2/2/12	
Analysis/Methods:		Modified TO-15	
		Lab ID:	CDM ID:
Samples in WO:	IAS-NIC-UMC109C-020212	1202139-01A	DC5-109C/C5_PH2

Volatile Organic Compounds

Lab Qualifiers:

J = Estimated value due to bias in CCV

UJ = Non-detected compound associated with low bias in CCV &/or LCS

Q = Exceeds quality control limits

Affected Compounds

Chloromethane (CM)

Methylene chloride (MECL), tetrahydrofuran (THF)

see CCV and LCS/LCSD

Accuracy:

		Yes	No	N/A
Number of surrogates per sample analyzed	3			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?		No		
Are LCS/LCSD % recoveries within laboratory criteria?		No		

Comments (note deviations):

1 lab blank: CM, MECL, THF qualified as "UJ". Some lab blank RLs > Tier 2 limits - see 02A under Comparability sectior

1 CCV: CM (64% vs. 70-130 control range), MECL (68% vs. 70-130 control range), THF (69% vs. 70-130 control range) qualified as "Q"

1 LCS & 1 LCSD: CM, MECL, THF %Rec w/in range;

1,2,4-trichlorobenzene in LCS (145%) and hexachlorobutadiene in LCS (141%) & LCSD (131%) qualified as "Q" ; however, these compounds ND in all samples therefore not qualified

Precision:

	Yes	No	N/A
Are field duplicate relative percent differences (RPDs) within the criteria of≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?			N/A
Are LCS duplicate RPDs within laboratory control limits?			N/A

Comments (note deviations):

Comparability:

	Yes	No	N/A
Are RLs < KDHE Tier 2 goals?	Yes except lab blank		

Comments (note deviations):

Non-detect compounds with RLs > KDHE Tier 2 (02A is lab blank)

Sample(s)	Compound	RLs (µg/m3)	KDHE Tier 2 (µg/m3)
01A, 02A	bromodichloromethane (BDCM)	1.2, 0.67	0.658
01A, 02A	1,2-dibromoethane (EDB)	1.4, 0.77	0.0406
01A, 02A	1,1,2,2-tetrachloroethane (1122PCA)	1.2, 0.69	0.42
01A, 02A	alpha-chlorotoluene	0.95, 0.52	0.497
01A, 02A	1,2,4-trichlorobenzene	6.8, 3.7	2.09

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		
Were pre-set regulators provided and usable?	Yes		
Were canisters certified 100% clean?	Yes		
Were all blanks for passive diffusion samplers analyzed?	N/A		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?		No	
Are results above the linear range of the instrument?		No	

Comments (note deviations):

Only RLs are listed, not MDLs

Completeness (90%):

	Yes	No	N/A
Were all samples analyzed?	Yes		
Are all data in this WO useable?	Yes		

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 3/29/2012

CDM Smith

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North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:	1202197	Passive diffusion samplers
Laboratory:	Air Toxics Ltd.	
Matrix:	Air	
Collection date:	1/27/12 - 1/31/12 deployment	
Analysis/Methods:	Passive Ultra III (TD) - TO-17	

		Lab ID:	CDM ID:
Samples in WO:	IAP-NIC-611NEWYORK-012712	1202197-01A/01B	L38_PH2
	OAP-NIC-1737PARK-012712	1202197-02A/02B	OA11_PH2
	IAP-NIC-1318INDI-012812	1202197-03A/03B	L40_PH2
	IAP-NIC-1324INDI-012812	1202197-04A/04B	L41_PH2
	IAP-NIC-1132CLEV-012812	1202197-05A/05B	L43_PH2
	IAP-NIC-1143CLEV-012812	1202197-06A/06B	L44_PH2
	IAP-NIC-1143CLEV**Q**-012812	1202197-07A/07B	L44_PH2 Duplicate
	IAP-NIC-1347MATT-012812	1202197-08A/08B	L45_PH2
	IAP-NIC-1126MATT-012812	1202197-09A/09B	L46_PH2
	OAP-NIC-17THOHIO-012812	1202197-10A/10B	OA12_PH2
	OAP-NIC-1502E10TH-012612	1202197-11A/11B	OA07_PH2
	OAP-NIC-12THWELL-013112	1202197-12A/12B	OA13_PH2
	IAP-NIC-515MATH-013112	1202197-13A/13B	L47/C4_PH2
	IAP-NIC-515MATH**Q**-013112	1202197-14A/14B	L47/C4_PH2 Duplicate

Volatile Organic Compounds

Lab Qualifiers:	**Affected Compounds**
E = Exceeds instrument calibration range	see Sensitivity section
C = Estimated concentration due to calculated sampling rate	Vinyl chloride (VC), 1,1-Dichloroethane (11DCA) * in outdoor air (OAP) sample(s)
Q = Exceeds quality control limits	VC in 2nd LCSD (LCS ok)

Accuracy:		**Yes No N/A**
Number of surrogates per sample analyzed	1	
Are surrogate % recoveries within laboratory determined control limits?		Yes
Are laboratory blank results all < RLs (reporting limits)?		Yes
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes
Are LCS/LCSD % recoveries within laboratory criteria?		No

Comments (note deviations):

2 lab blanks, 1 CCV: no issues. 2 ea LCS & LCSD: no issues in set 1, see below for 2nd LCSD

Due to high concentrations of TOL in 1 sample, some concentrations were reported from diluted analyses. 1 CCV High Split was also run.

%Rec for VC in 17BB (2nd LCSD) qualified by "Q" (133% vs. 70-130 control range); LCS w/in range; compound ND for associated samples therefore not qualified

Precision:	**Yes No N/A**
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?	Yes
Are LCS duplicate RPDs within laboratory control limits?	N/A

Comments (note deviations): *See Table 3-5 for COPCs

1,2-Dichloroethane (12DCA) and 2-Butanone (Methyl ethyl ketone) (MEK) in 13A/B vs. 14A/B exceeded the air RPD limit at 42% and 71%, respectively

Sample(s)	Orig. (µg/m3)	Dupl. (µg/m3)	RPD	RL & 3xRL (µg/m3)		Difference
1143 Cleveland						
*All detected compounds for 06A/B & 07A/B show < 30% for RPDs; therefore, no quals						
515 Mathewson						
13A/B & 14A/B - 12DCA	4	2.6	**42%**	0.017	0.051	1.4
13A/B & 14A/B - MEK	21	10	**71%**	0.95	2.85	11
*Other compounds for 13A/B & 14A/B show < 30% for RPDs; therefore, no quals						

Comparability:	**Yes No N/A**
Are RLs < KDHE Tier 2 goals?	Yes

Comments (note deviations):

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202197 Passive diffusion samplers

Representativeness:	**Yes No N/A**
Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	N/A
Were canisters certified 100% clean?	N/A
Were all blanks for passive diffusion samplers analyzed?	Yes

Comments (note deviations):

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	No
Are results above the linear range of the instrument?	Yes

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding the instrument range are as follows:

Sample(s)	Compound
03A/B, 04A/B, 05A/B, 06A/B, 07A/B, 08A/B, 13A/B, 14A/E	2-Butanone (Methyl ethyl ketone) (MEK)
03A/B, 04A/B, 05A/B, 06A/B, 07A/B, 08A/B, 13A/B, 14A/E	Acetone (ACE)
04A/B	Benzene (BEN)
04A/B	Cyclohexane
04A/B	Ethylbenzene (EBN)
04A/B	Heptane
04A/B	Hexane
03A/B, 04A/B, 05A/B, 06A/B, 07A/B, 08A/B, 13A/B, 14A/E	Toluene (TOL)
03A/B, 04A/B	m,p-Xylene (XYLMP)
04A/B	o-Xylene (XYLO)

Completeness (90%):	**Yes No N/A**
Were all samples analyzed?	Yes
Are all data in this WO useable?	Yes

Comments (note deviations):

Final Comments:

Reported concentrations for 12DCA and MEK in 13A/B & 14A/B are > 3xRL for ea compound. The absolute difference b/w the original and duplicate values is > the actual RL. Therefore, 12DCA and MEK in 13A/B & 14A/B will be qualified using "J1" for "Estimated value due to RPD exceedence." No other issues are noted and no additional qualifications are needed.

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:	1202261	Passive diffusion samplers
Laboratory:	Air Toxics Ltd.	
Matrix:	Air	
Collection date:	1/28/12 - 2/2/12 deployment	
Analysis/Methods:	Passive Ultra III (TD) - TO-17	

Samples in WO:		Lab ID:	CDM ID:
	IAP-NIC-1134INDI-012812	1202261-01A/01B	L42_PH2
	OAP-NIC-19THWASH-020112	1202261-02A/02B	OA14_PH2
	IAP-NIC-MCAREC-OF-020212	1202261-03A/03B	DC2-OF_PH2
	IAP-NIC-MCAREC-LNG-020212	1202261-04A/04B	DC2-LNG_PH2
	IAP-NIC-MCAREC-CR-020212	1202261-05A/05B	DC2-CR_PH2
	OAP-NIC-MCAREC-020212	1202261-06A/06B	OA15_PH2
	IAP-NIC-VCHRISTI-BSMT-020212	1202261-07A/07B	DC3-BSMT_PH2
	IAP-NIC-VCHRISTI-104-020212	1202261-08A/08B	DC3-104_PH2
	IAP-NIC-VCHRISTI-108-020212	1202261-09A/09B	DC3-108_PH2
	IAP-NIC-VCHRISTI-113-020212	1202261-10A/10B	DC3-113_PH2
	OAP-NIC-VCHRISTI-020212	1202261-11A/11B	OA16_PH2
	OAP-NIC-VCHRISTI**Q**-020212	1202261-12A/12B	OA16_PH2 Duplicate
	IAP-NIC-ENVIS104-020212	1202261-13A/13B	DC4-104_PH2
	IAP-NIC-ENVISGYM-020212	1202261-14A/14B	DC4-GYM_PH2
	IAP-NIC-ENVISNUR-020212	1202261-15A/15B	DC4-NUR_PH2
	IAP-NIC-ENVISNUR**Q**-020212	1202261-16A/16B	DC4-NUR_PH2 Duplicate
	IAP-NIC-UMC109C-020212	1202261-17A/17B	DC5-109C/C5_PH2
	IAP-NIC-UMCNUR-020212	1202261-18A/18B	DC5-NUR_PH2
	OAP-NIC-UMC-020212	1202261-19A/19B	OA17_PH2

Volatile Organic Compounds

Lab Qualifiers:	**Affected Compounds**
E = Exceeds instrument calibration range	see Sensitivity section
C = Estimated concentration due to calculated sampling rate	Vinyl chloride (VC), 1,1-Dichloroethane (11DCA) * in outdoor air (OAP) sample(s)
Q = Exceeds quality control limits	VC in 1st CCV

Accuracy:		**Yes**	**No**	**N/A**
Number of surrogates per sample analyzed	1			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?			No	
Are LCS/LCSD % recoveries within laboratory criteria?			No	

Comments (note deviations):

2 lab blanks: no issues. 2 CCVs: no issues in CCV2, see below for 1st CCV. 2 ea LCS & LCSD: see below

Due to high concentrations of aetone (ACE) and Heptane in some samples, some concentrations were reported from diluted analyses. 1 CCV High Split was also run.

%Rec for VC in 21A (1st CCV) qualified by "Q" (134% vs. 70-130 control range); both LCS w/in range; compound ND for associated samples therefore not qualified

%Rec for VC in 22AA (1st LCSD) and 22BB (2nd LCSD) qualified by "Q" (132% and 131%, respectively, vs. 70-130 control range); LCS w/in range; compound ND for associated samples therefore not qualified

Precision:	**Yes**	**No**	**N/A**
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?		No	
* Comparison of low contaminant concentrations (<2xRL for water, <3xRL for air, & <5xRL for soils) often results in RPDs > limit. For results reported b/w the RL & 2xRL, 3xRL, or 5xRL, the absolute difference b/w the results should be < the actual RL.			
Are LCS duplicate RPDs within laboratory control limits?			N/A

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1202261 Passive diffusion samplers

Comments (note deviations): *See Table 3-5 for COPCs

Carbon tetrachloride (CT) and Hexane (HEX) in 11A/B vs. 12A/B exceeded the air RPD limit at 43% and 50%, respectively

1,1,1-Trichloroethane (111TCA), Hexane (HEX), and 2-Butanone (Methyl ethyl ketone) (MEK) in 11A/B vs. 12A/B exceeded the air RPD limit at 38%, 98%, and 53%, respectively

Sample(s)	Orig. (µg/m3)	Dupl. (µg/m3)	RPD	RL & 3xRL (µg/m3)		Difference
Via Christi OAP						
11A/B & 12A/B - CT	0.065	0.042	**43%**	0.024	0.072	0.023
11A/B & 12A/B - HEX	1.8	3	**50%**	0.28	0.84	1.2
*Other compounds for 11A/B & 12A/B show < 30% for RPDs; therefore, no quals						
ENVIS Nur						
15A/B & 16A/B - 111TCA	0.053	0.036	**38%**	0.029	0.087	0.017
15A/B & 16A/B - MEK	3.6	6.2	**53%**	0.95	2.85	2.6
15A/B & 16A/B - HEX	3.5	1.2	**98%**	0.19	0.57	2.3
*Other compounds for 15A/B & 16A/B show < 30% for RPDs; therefore, no quals						

Comparability:	**Yes No N/A**
Are RLs < KDHE Tier 2 goals?	Yes

Comments (note deviations):

Representativeness:	**Yes No N/A**
Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	N/A
Were canisters certified 100% clean?	N/A
Were all blanks for passive diffusion samplers analyzed?	Yes

Comments (note deviations):

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	No
Are results above the linear range of the instrument?	Yes

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding the instrument range are as follows:

Sample(s)	Compound
01A/B	2-Butanone (Methyl ethyl ketone) (MEK)
01A/B, 03A/B, 04A/B, 05A/B, 07A/B, 08A/B, 09A/B, 10A/B, 13A/B, 14A/B, 14A/B, 16A/B, 17A/B, 18A/B	Acetone (ACE)
01A/B, 07A/B, 08A/B, 10A/B, 11A/B, 12A/B	Toluene (TOL)

Completeness (90%):	**Yes No N/A**
Were all samples analyzed?	Yes
Are all data in this WO useable?	Yes

Comments (note deviations):

Final Comments:

Reported concentrations for CT in 11A/B & 12A/B and 111TCA in 15A/B & 16A/B are < 3xRL for ea compound. The absolute difference b/w the original and duplicate values is < the actual RL. Therefore, no qualifiers have been added.

Reported concentrations for HEX in 11A/B & 12A/B are > 3xRL. The absolute difference b/w the original and duplicate values is > the actual RL. Therefore, HEX in 11A/B & 12A/B will be qualified using "J1" for "Estimated value due to RPD exceedence."

Reported concentrations for HEX and MEK in 15A/B & 16A/B are > 3xRL for ea compound. The absolute difference b/w the original and duplicate values is > the actual RL. Therefore, HEX and MEK in 15A/B & 16A/B will be qualified using "J1" for "Estimated value due to RPD exceedence."

No other issues are noted and no additional qualifications are needed.

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:	1203248	6L stainless steel canister sample(s)
Laboratory:	Air Toxics Ltd.	
Matrix:	Air	
Collection date:	3/8/12	
Analysis/Methods:	Modified TO-15	

		Lab ID:	CDM ID:
Samples in WO:	IAS-NIC-1402ARN-CWL-030812	1203248-01A	L25_PH3_CWL
	IAS-NIC-1402ARN-LVR-030812	1203248-02A	L25_PH3_LVR
	IAS-NIC-1035CLEV-BSMT-030812	1203248-03A	L34_PH3_BSMT
	IAS-NIC-1035CLEV-LVR-030812	1203248-04A	L34_PH3_LVR

Volatile Organic Compounds

Lab Qualifiers: **Affected Compounds**

E = Exceeds instrument calibration range — see Sensitivity section

Accuracy:

		Yes	No	N/A
Number of surrogates per sample analyzed	3			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes		
Are LCS/LCSD % recoveries within laboratory criteria?		Yes		

Comments (note deviations):

1 lab blank, 1 CCV, 1 ea LCS & LCSD: no issues w/ CCV or LCS/LCSD. Some lab blank RLs > Tier 2 limits - see 05A under Comparability section

Precision:

	Yes	No	N/A
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?			N/A
Are LCS duplicate RPDs within laboratory control limits?			N/A

Comments (note deviations):

Comparability:

	Yes	No	N/A
Are RLs < KDHE Tier 2 goals?		No	

Comments (note deviations):

Non-detect compounds with RLs > KDHE Tier 2 (05A is lab blank)

Sample(s)	Compound	RLs (µg/m3), respectively	KDHE Tier 2 (µg/m3)
01A, 02A, 03A, 04A, 05A	bromodichloromethane (BDCM)	1.0, 1.0, 1.2, 1.0, 0.67	0.658
01A, 02A, 03A, 04A, 05A	1,2-dibromoethane (EDB)	1.2, 1.2, 1.4, 1.1, 0.77	0.0406
01A, 02A, 03A, 04A, 05A	1,1,2,2-tetrachloroethane (1122PCA)	1.1, 1.1, 1.3, 1.0, 0.69	0.42
01A, 02A, 03A, 04A, 05A	alpha-chlorotoluene	0.82, 0.82, 0.97, 0.77, 0.52	0.497
01A, 02A, 03A, 04A, 05A	1,2,4-trichlorobenzene	5.9, 5.9, 6.9, 5.5, 3.7	2.09

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		
Were pre-set regulators provided and usable?	Yes		
Were canisters certified 100% clean?	Yes		
Were all blanks for passive diffusion samplers analyzed?			N/A

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?		No	
Are results above the linear range of the instrument?	Yes		

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding instrument range are: Ethanol in 02A, 03A, & 04A and Acetone in 03A & 04A

Completeness (90%):

	Yes	No	N/A
Were all samples analyzed?	Yes		
Are all data in this WO useable?	Yes		

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012

CDM Smith

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North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:		1203249A	6L stainless steel canister sample(s)
Laboratory:		Air Toxics Ltd.	
Matrix:		Air	
Collection date:		3/7/12	
Analysis/Methods:		Modified TO-15	
		Lab ID:	CDM ID:
Samples in WO:	IAS-NIC-1105E12TH-030712	1203249A-01A	L01_PH3_LVR

Volatile Organic Compounds

Lab Qualifiers:

E = Exceeds instrument calibration range

Affected Compounds

Ethanol

Accuracy:

		Yes	No	N/A
Number of surrogates per sample analyzed	3			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes		
Are LCS/LCSD % recoveries within laboratory criteria?		Yes		

Comments (note deviations):

1 lab blank, 1 CCV, 1 ea LCS & LCSD: no issues w/ CCV or LCS/LCSD. Some lab blank RLs > Tier 2 limits - see 02A under Comparability section

Precision:

	Yes	No	N/A
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?			N/A
Are LCS duplicate RPDs within laboratory control limits?			N/A

Comments (note deviations):

Comparability:

	Yes	No	N/A
Are RLs < KDHE Tier 2 goals?		No	

Comments (note deviations):

Non-detect compounds with RLs > KDHE Tier 2 (02A is lab blank)

Sample(s)	Compound	RLs (µg/m3), respectively	KDHE Tier 2 (µg/m3)
01A, 02A	bromodichloromethane (BDCM)	1.3, 0.67	0.658
01A, 02A	1,2-dibromoethane (EDB)	1.5, 0.77	0.0406
01A, 02A	1,1,2,2-tetrachloroethane (1122PCA)	1.3, 0.69	0.42
01A, 02A	alpha-chlorotoluene	0.99, 0.52	0.497
01A, 02A	1,2,4-trichlorobenzene	7.1, 3.7	2.09

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		
Were pre-set regulators provided and usable?	Yes		
Were canisters certified 100% clean?	Yes		
Were all blanks for passive diffusion samplers analyzed?			N/A

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?		No	
Are results above the linear range of the instrument?	Yes		

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding instrument range are: Ethanol in 01A

Completeness (90%):

	Yes	No	N/A
Were all samples analyzed?	Yes		
Are all data in this WO useable?	Yes		

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:		1203249B	1L stainless steel canister grab sample from tote
Laboratory:		Air Toxics Ltd.	
Matrix:		Air	
Collection date:		3/7/12	
Analysis/Methods:		Modified TO-15	
		Lab ID:	CDM ID:
Samples in WO:	IAGS-NIC-1347MATH-030712	1203249B-02A	L45_PH3_TOTE

Volatile Organic Compounds

Lab Qualifiers: **Affected Compounds**

none

Accuracy: **Yes No N/A**

Number of surrogates per sample analyzed	3	
Are surrogate % recoveries within laboratory determined control limits?		Yes
Are laboratory blank results all < RLs (reporting limits)?		Yes
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes
Are LCS/LCSD % recoveries within laboratory criteria?		Yes

Comments (note deviations):

1 lab blank, 1 CCV, 1 ea LCS & LCSD: no issues w/ CCV or LCS/LCSD. Some lab blank RLs > Tier 2 limits - see 03A under Comparability section

Precision: **Yes No N/A**

Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?	N/A
Are LCS duplicate RPDs within laboratory control limits?	N/A

Comments (note deviations):

Comparability: **Yes No N/A**

Are RLs < KDHE Tier 2 goals?	No

Comments (note deviations):

Non-detect compounds with RLs > KDHE Tier 2 (03A is the lab blank)

Sample(s)	Compound	RLs (µg/m3), respectively	KDHE Tier 2 (µg/m3)
02A, 03A	1,3-butadiene	2.2, 1.1	0.811
02A, 03A	bromomethane	38, 19	5.21
03A	chloroform (CFM)	2.4	1.06
02A, 03A	1,2-dichloroethane (12DCA)	4.0, 2.0	0.936
02A, 03A	trichloroethene (TCE)	5.3, 2.7	2.09
02A	1,2-dichloropropane	4.5	2.43
02A, 03A	bromodichloromethane (BDCM)	6.6, 3.4	0.658
02A, 03A	1,1,2-trichloroethane	5.3, 2.7	1.52
02A	tetrachloroethene (PCE)	6.6	4.12
02A, 03A	1,2-dibromoethane (EDB)	7.5, 3.8	0.0406
02A, 03A	1,1,2,2-tetrachloroethane (1122PCA)	6.7, 0.42	0.42
02A, 03A	1,4-dichlorobenzene (14DCB)	5.9, 3.0	2.21
02A, 03A	alpha-chlorotoluene	5.1, 2.6	0.497
02A, 03A	1,2,4-trichlorobenzene	29, 15	2.09

Representativeness: **Yes No N/A**

Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	N/A
Were canisters certified 100% clean?	Yes
Were all blanks for passive diffusion samplers analyzed?	N/A

Comments (note deviations):

Sensitivity: **Yes No N/A**

Are MDLs present and reported?	No
Are results above the linear range of the instrument?	No

Comments (note deviations):

Only RLs are listed not MDLs

Completeness (90%): **Yes No N/A**

Were all samples analyzed?	Yes
Are all data in this WO useable?	Yes

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012

CDM Smith

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:		1203300	6L stainless steel canister sample(s)
Laboratory:		Air Toxics Ltd.	
Matrix:		Air	
Collection date:		3/12/12	
Analysis/Methods:		Modified TO-15	
		Lab ID:	CDM ID:
Samples in WO:	IAS-NIC-1347MATH-LVR-031212	1203300-01A	L45_PH3_LVR
	IAS-NIC-1347MATH-BSMT-031212	1203300-02A	L45_PH3_BSMT

Volatile Organic Compounds

Lab Qualifiers:

E = Exceeds instrument calibration range
UJ = Non-detected compound associated with low bias in CCV &/or LCS
Q = Exceeds quality control limits

Affected Compounds

Ethanol
Methylene chloride (MECL)
MECL in CCV, LCS, & LCSD; Carbon tetrachloride (CT) in LCS/LCSD

Accuracy:

		Yes	No	N/A
Number of surrogates per sample analyzed	3			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?			No	
Are LCS/LCSD % recoveries within laboratory criteria?			No	

Comments (note deviations):

1 lab blank: MECL qualified as "UJ". Some lab blank RLs > Tier 2 limits - see 03A under Comparability section
1 CCV: MECL qualified as "Q" (56% vs. 70-130 control range)
1 LCS & 1 LCSD: MECL (63% & 50%, respectively, vs. 70-130 control range) and CT (69% (both) vs. 70-130 control range) qualified as "Q"; however, these compounds ND in samples

Precision:

	Yes	No	N/A
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?			N/A
Are LCS duplicate RPDs within laboratory control limits?			N/A

Comments (note deviations):

Comparability:

	Yes	No	N/A
Are RLs < KDHE Tier 2 goals?		No	

Comments (note deviations):

Non-detect compounds with RLs > KDHE Tier 2 (03A is lab blank)

Sample(s)	Compound	RLs (µg/m3), respectively	KDHE Tier 2 (µg/m3)
01A	1,3-butadiene	0.95	0.811
01A	chloroform (CFM)	2.1	1.06
01A	1,2-dichloroethane (12DCA)	1.7	0.936
01A	trichloroethene (TCE)	2.3	2.09
01A, 02A, 03A	bromodichloromethane (BDCM)	2.9, 1.2, 0.67	0.658
01A	1,1,2-trichloroethane (112TCA)	2.3	1.52
01A, 02A, 03A	1,2-dibromoethane (EDB)	3.3, 1.4, 0.77	0.0406
01A, 02A, 03A	1,1,2,2-tetrachloroethane (1122PCA)	2.9, 1.2, 0.69	0.42
01A, 02A, 03A	alpha-chlorotoluene	2.2, 0.93, 0.52	0.497
01A, 02A, 03A	1,2,4-trichlorobenzene	16, 6.6, 3.7	2.09

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		
Were pre-set regulators provided and usable?	Yes		
Were canisters certified 100% clean?	Yes		
Were all blanks for passive diffusion samplers analyzed?			N/A

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?		No	
Are results above the linear range of the instrument?	Yes		

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding instrument range are: Ethanol in 01A & 02A

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1203300 6L stainless steel canister sample(s)

Completeness (90%):	**Yes**	**No**	**N/A**
Were all samples analyzed?	Yes		
Are all data in this WO useable?	Yes		

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:	1203325	6L stainless steel canister sample(s)
Laboratory:	Air Toxics Ltd.	
Matrix:	Air	
Collection date:	3/13/12	
Analysis/Methods:	Modified TO-15	

		Lab ID:	CDM ID:
Samples in WO:	IAS-NIC-ENVIS104-031312	1203325-01A	DC4-104_PH3
	IAS-NIC-1151OHIO-LVR-031312	1203325-02A	L09_PH3_LVR
	IAS-NIC-1151OHIO-CWL-031312	1203325-03A	L09_PH3_CWL

Volatile Organic Compounds

Lab Qualifiers:

E = Exceeds instrument calibration range

Affected Compounds

Ethanol

Accuracy:

		Yes	No	N/A
Number of surrogates per sample analyzed	3			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes		
Are LCS/LCSD % recoveries within laboratory criteria?		Yes		

Comments (note deviations):

1 lab blank, 1 CCV, 1 ea LCS & LCSD: no issues w/ CCV or LCS/LCSD. Some lab blank RLs > Tier 2 limits - see 04A under Comparability section

Precision:

	Yes	No	N/A
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?	N/A		
Are LCS duplicate RPDs within laboratory control limits?	N/A		

Comments (note deviations):

Comparability:

	Yes	No	N/A
Are RLs < KDHE Tier 2 goals?	No		

Comments (note deviations):

Non-detect compounds with RLs > KDHE Tier 2 (04A is the lab blank)

Sample(s)	Compound	RLs (µg/m3), respectively	KDHE Tier 2 (µg/m3)
01A, 02A, 03A, 04A	bromodichloromethane (BDCM)	1.2, 1.1, 1.1, 0.67	0.658
01A, 02A, 03A, 04A	1,2-dibromoethane (EDB)	1.4, 1.3, 1.3, 0.77	0.0406
01A, 02A, 03A, 04A	1,1,2,2-tetrachloroethane (1122PCA)	1.3, 1.2, 1.2, 0.69	0.42
01A, 02A, 03A, 04A	alpha-chlorotoluene	0.97, 0.87, 0.88, 0.52	0.497
01A, 02A, 03A, 04A	1,2,4-trichlorobenzene	6.9, 6.2, 6.3, 3.7	2.09

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		
Were pre-set regulators provided and usable?	Yes		
Were canisters certified 100% clean?	Yes		
Were all blanks for passive diffusion samplers analyzed?	N/A		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?	No		
Are results above the linear range of the instrument?	Yes		

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding instrument range are: Ethanol in 01A & 02A

Completeness (90%):

	Yes	No	N/A
Were all samples analyzed?	Yes		
Are all data in this WO useable?	Yes		

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012

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North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:	1203345	Passive diffusion samplers
Laboratory:	Air Toxics Ltd.	
Matrix:	Air	
Collection date:	3/6/12 deployment	
Analysis/Methods:	Passive Ultra III (TD) - TO-17	

		Lab ID:	CDM ID:
Samples in WO:	OAP-NIC-EMPARK-030612	1203345-01A/01B	OA05_PH3
	OAP-NIC-1402ARNOLD-030612	1203345-02A/02B	OA06_PH3
	OAP-NIC-1402ARNOLD**Q**-030612	1203345-03A/03B	OA06_PH3 Duplicate
	OAP-NIC-DUNPARK-030612	1203345-04A/04B	OA04_PH3
	OAP-NIC-717MATH-030612	1203345-05A/05B	OA10_PH3
	OAP-NIC-UMC-030612	1203345-06A/06B	OA17_PH3

Volatile Organic Compounds

Lab Qualifiers:	**Affected Compounds**
C = Estimated concentration due to calculated sampling rate	Vinyl chloride (VC), 1,1-Dichloroethane (11DCA) * in outdoor air (OAP) sample(s)
J = Estimated value due to bias in the CCV	2-Butanone (Methyl ethy ketone) (MEK), Ethylbenzene (EBN), m,p-Xylene (XYLMP), o-Xylene (XYLO), Tetrachloroethene (PCE), Toluene (TOL), Trichloroethene (TCE),
Q = Exceeds quality control limits	01A surr %Rec, MEK in CCV, see LCS/LCSD

Accuracy:

		Yes	**No**	**N/A**
Number of surrogates per sample analyzed	1: 4-bromofluorobenzene			
Are surrogate % recoveries within laboratory determined control limits?		Yes		
Are laboratory blank results all < RLs (reporting limits)?		Yes		
Are continuing calibration verification (CCV) % recoveries within method limits?		No		
Are LCS/LCSD % recoveries within laboratory criteria?		No		

Comments (note deviations):

1 lab blank: no issues; 1 CCV, 1 ea LCS & LCSD - see below

Surr %Rec in 01A qualified by "Q" (136% vs. 70-130 control range). Surr %Rec in associated sample blank w/in range; however, associated compounds XYLMP and XYLO detected in both sample and sample blank.

%Rec for MEK in 08A (CCV) qualified by "Q" (139% vs. 70-130 control range). %Rec for MEK in 09A & 09AA (LCS & LCSD) also qualified by "Q" (154% and 142%, respectively, vs. 70-130 control range). Data qualified.

%Rec for Methyl tert-butyl ether (MTBE) in 09A & 09AA (LCS & LCSD) qualified by "Q" (161% and 160%, respectively, vs. 70-130 control range); however, compound ND in associated samples therefore not qualified.

%Rec for Carbon tetrachloride (CT) in 09AA (LCSD) qualified by "Q" (66% vs. 70-130 control range); LCS w/in range.

%Rec for TCE in 09AA (LCSD) qualified by "Q" (132% vs. 70-130 control range); LCS w/in range.

Precision:

	Yes	**No**	**N/A**
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?		No	
Are LCS duplicate RPDs within laboratory control limits?			N/A

* Comparison of low contaminant concentrations (<2xRL for water, <3xRL for air, & <5xRL for soils) often results in RPDs > limit. For results reported b/w the RL & 2xRL, 3xRL, or 5xRL, the absolute difference b/w the results should be < the actual RL.

Comments (note deviations): *See Table 3-5 for COPCs

The following compounds in 02A/B vs. 03A/B exceeded the air RPD limit: 1,1,1-Trichloroethane (111TCA) (48%); 1,2-Dichloroethane (12DCA) (48%); Acetone (ACE) (59%); Carbon tetrachloride (CT) (73%); Chloroform (CFM) (39%); EBN (31%); Heptane (HP) (35%); and TCE (72%)

Sample(s)	Orig. (µg/m3)	Dupl. (µg/m3)	RPD	RL & 3xRL (µg/m3)		Difference
1402 Arnold OAP						
02A/B & 03A/B - 111TCA	0.036	0.022	**48%**	0.016	0.048	0.014
02A/B & 03A/B - 12DCA	0.065	0.04	**48%**	0.012	0.036	0.025
02A/B & 03A/B - ACE	0.7	0.38	**59%**	0.26	0.78	0.32
02A/B & 03A/B - CT	0.073	0.034	**73%**	0.018	0.054	0.039
02A/B & 03A/B - CFM	0.034	0.023	**39%**	0.015	0.045	0.011
02A/B & 03A/B - EBN	0.48	0.35	**31%**	0.028	0.084	0.13
02A/B & 03A/B - HP	0.77	0.54	**35%**	0.12	0.36	0.23
02A/B & 03A/B - TCE	0.066	0.031	**72%**	0.015	0.045	0.035

*Other compounds for 02A/B & 03A/B show < 30% for RPDs; therefore, no quals

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number: 1203345 Passive diffusion samplers

Comparability:	**Yes No N/A**
Are RLs < KDHE Tier 2 goals?	Yes
Comments (note deviations):	

Representativeness:	**Yes No N/A**
Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	N/A
Were canisters certified 100% clean?	N/A
Were all blanks for passive diffusion samplers analyzed?	Yes
Comments (note deviations):	

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	No
Are results above the linear range of the instrument?	No
Comments (note deviations):	

Only RLs are listed, not MDLs.

Completeness (90%):	**Yes No N/A**
Were all samples analyzed?	Yes
Are all data in this WO useable?	Yes
Comments (note deviations):	

Final Comments:

Reported concentrations for 111TCA, CFM, and EBN in 02A/B & 03A/B are < 3xRL for ea compound. The absolute difference b/w the original and duplicate values is < the actual RL. Therefore, no qualifiers have been added for 111TCA, CFM, or EBN.

Reported concentrations for TCE and CT in 02A/B are > 3xRL although they are < 3xRL in 03A/B. The absolute differences b/w the original and duplicate values are > the actual RLs for each compound. Therefore, TCE and CT in 02A/B & 03A/B will be qualified using "J1" for "Estimated value due to RPD exceedence."

Reported concentrations for 12DCA, ACE, and HP in 02A/B & 03A/B are > 3xRL. The absolute difference b/w the original and duplicate values is > the actual RL. Therefore, 12DCA, ACE, and HP in 02A/B & 03A/B will be qualified using "J1" for "Estimated value due to RPD exceedence."

Reported concentrations for XYLMP and XYLO in 01A/B are qualified "J+" due to potential high bias as a result of surrogate percent recovery.

No other issues are noted and no additional qualifications are needed.

Data Validator: M. Williams Date: 4/3/2012

North Industrial Corridor (NIC) Site
Site-wide Vapor Intrusion Investigation
Data Validation Worksheet

Work Order (WO) Number:		1203364	6L stainless steel canister sample(s)
Laboratory:		Air Toxics Ltd.	
Matrix:		Air	
Collection date:		3/13/12	
Analysis/Methods:		Modified TO-15	
		Lab ID:	CDM ID:
Samples in WO:	IAS-NIC-717MATH-LVR-031312	1203364-01A	DC1-LR_PH3

Volatile Organic Compounds

Lab Qualifiers:

E = Exceeds instrument calibration range

Affected Compounds

Acetone (ACE)

Accuracy:		**Yes No N/A**
Number of surrogates per sample analyzed	3	
Are surrogate % recoveries within laboratory determined control limits?		Yes
Are laboratory blank results all < RLs (reporting limits)?		Yes
Are continuing calibration verification (CCV) % recoveries within method limits?		Yes
Are LCS/LCSD % recoveries within laboratory criteria?		Yes

Comments (note deviations):

1 lab blank, 1 CCV, 1 ea LCS & LCSD: no issues w/ CCV or LCS/LCSD. Some lab blank RLs > Tier 2 limits - see 02A under Comparability section

Precision:	**Yes No N/A**
Are field duplicate relative percent differences (RPDs) within the criteria of ≤ 25% for aqueous, ≤ 35% for soil, &/or ≤ 30% for air?	N/A
Are LCS duplicate RPDs within laboratory control limits?	N/A

Comments (note deviations):

Comparability:	**Yes No N/A**
Are RLs < KDHE Tier 2 goals?	No

Comments (note deviations):

Non-detect compounds with RLs > KDHE Tier 2 (02A is the lab blank)

Sample(s)	Compound	RLs (µg/m3), respectively	KDHE Tier 2 (µg/m3)
01A, 02A	bromodichloromethane (BDCM)	1.2, 0.67	0.658
01A, 02A	1,2-dibromoethane (EDB)	1.4, 0.77	0.0406
01A, 02A	1,1,2,2-tetrachloroethane (1122PCA)	1.3, 0.69	0.42
01A, 02A	alpha-chlorotoluene	0.96, 0.52	0.497
01A, 02A	1,2,4-trichlorobenzene	6.9, 3.7	2.09

Representativeness:	**Yes No N/A**
Were sampling procedures and design criteria met?	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes
Were pre-set regulators provided and usable?	Yes
Were canisters certified 100% clean?	Yes
Were all blanks for passive diffusion samplers analyzed?	N/A

Comments (note deviations):

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	No
Are results above the linear range of the instrument?	Yes

Comments (note deviations):

Only RLs are listed, not MDLs. Compounds with results exceeding instrument range are: ACE in 01A

Completeness (90%):	**Yes No N/A**
Were all samples analyzed?	Yes
Are all data in this WO useable?	Yes

Comments (note deviations):

Final Comments:

No issues are noted and no additional qualifications are needed

Data Validator: M. Williams Date: 4/2/2012