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Mr. David Szymanski
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

Subject:
Supplemental Off-Site Soil Vapor Investigation, 3707 Broadway, Cheektowaga, New York

ENVIRONMENT

Dear Mr. Szymnaski:

Date:
June 26, 2012

Contact:
Marc W. Sanford

Phone:
518.250.7385

Email:
marc.sanford@arcadis-us.com

Our ref:
AY000220.0016

On behalf of Ingersoll Rand Company, ARCADIS has prepared this report for the supplemental Soil Vapor Investigation (SVI) at an off-site property near the ARO Corporation Site (the Site) in Cheektowaga, New York (Figure 1). The supplemental SVI specifically relates to the off-site sampling of indoor and outdoor air at the residence at 3707 Broadway for the presence of TCE.

Sample Collection

Prior to sampling, a visual inspection of the residence's interior and exterior was performed and an inventory taken of potential sources of VOCs within the basement. As part of the reconnaissance, information was collected about ventilation system(s), and building construction as well. Assorted cleaning products were found in the basement, but they were not identified as potential sources of VOCs.

Indoor Air Sampling

The indoor air sample was collected in accordance with the *Guidance for Evaluating Vapor Intrusion in New York State*, New York State Department of Health (NYSDOH 2006). One indoor air sample (sample IA-1) was collected from the basement of the 3707 Broadway Street residence (see Figure 2).

The indoor air sample was collected using a 6-liter polished stainless steel SUMMA® canister with calibrated flow controller that was cleaned, certified, and evacuated prior to sampling. During the collection process, the canister was positioned at breathing height (approximately 5 feet above the floor) at a location near the center of the basement in the home. The flow controller was calibrated for an 8-hour sample collection period. At the completion of the sampling duration, the canister was closed, sealed with a brass Swagelok® cap, and shipped to the laboratory for analysis of TCE using Method TO-15.

Ambient Air Sampling

Two ambient outdoor air samples were collected concurrently with the indoor air sample to evaluate potential background sources from outside the residence. The locations of the ambient air samples were determined based on wind direction at the time of the sampling. Ambient air sampling began one hour before indoor air sampling and continued until thirty minutes before the indoor air sampling ended, as identified in the Work Plan.

The ambient air sample canisters were positioned on both the upwind and downwind sides of the residence, labeled as OA1-U and OA2-D, respectively. Canisters were positioned on property boundary fences at breathing height and at least 15 feet from the nearest building. Collection of ambient air samples followed the same methodology as described for the indoor air sample with the exception of sample start time. Ambient air samples were also analyzed for TCE like the indoor air sample.

Sump Sampling

At the time of sampling, water was present in the two sumps in the basement. In preparation for sampling, standing water in the sumps was removed. However, a sample could not be collected as groundwater did not refill the sumps, and they remained dry throughout the remainder of the day. Thus no groundwater samples were collected. It was also noted that there was a connection between one of the sumps and the utility sink, and possibly the washing machine in the basement.

Analytical Results

Indoor and ambient air samples were analyzed at the Test America Laboratories at their Burlington, VT laboratory using EPA Method TO-15 (Determination of VOCs in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography Mass Spectrometry). The target analyte was TCE.

The following table summarizes the results of air samples collected during this investigation:

Sample ID	Trichloroethene (TCE)
IA1	ND
OA1-U	ND
OA2-D	ND

ND - result less than the laboratory method detection limit

Quality Assurance/Quality Control (QA/QC)

QA/QC measures were carried out to minimize potential errors and facilitate obtaining high quality data. The field personnel avoided actions that could cause sample interference in the field, such as fueling vehicles, using permanent marking pens, and wearing freshly dry-cleaned clothing or personal fragrances. Appropriate QA/QC protocols were followed during sample collection and laboratory analysis, including:

- Certified clean sample devices and containers were employed.
- Sample holding times and temperatures were met and documented.
- Chain-of-custody practices were followed consistently and appropriately.

Data Validation

Analytical data generated during the investigation is accompanied by a NYSDEC Analytical Services Protocol (ASP) deliverable package. The data package has been validated by an ARCADIS data validator. The validation includes the following items:

- Adherence to specific holding times;
- Laboratory blank-detected constituents; and
- Matrix spike/spike duplicate precision and accuracy.

Pertinent field sampling records (i.e., field notes, chain of custody records) were reviewed in conjunction with the laboratory deliverables for accuracy, precision, completeness, overall quality of data, and absence of transcription errors. The results of the data validation are summarized in the memorandum provided in Appendix A.

Recommendations for Additional Work

The results of this Soil Vapor Investigation confirm the absence of TCE in the basement air of the subject residence. No further action is recommended.

If you have any questions or comments regarding this report, please do not hesitate to contact us.

Sincerely,

ARCADIS of New York, Inc.

Michael P. Nasca
Environmental Specialist

Marc W. Sanford
Principal Scientist

Copies:
David Sordi, Ingersoll Rand
Matt Forcucci, NYSDOH
Steven Bates, NYSDOH
James Charles, NYSDEC
File

ARCADIS

Figures

CITY:(KNOXVILLE) DIV/GROUP:(ENVCAD) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.SANFORD) PM:(M.SANFORD) TM:(OPT)
G:\ENVCAD\Knoxville\ACT\AY000220\0016\00003\2012 OFF-SITE VI\F1 AY220_OFF_reg.dwg LAYOUT: 1 SAVED: 6/13/2012 7:33 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: TN1_STANDARD.CTB PLOTTED: 6/13/2012 7:35 PM BY: ALTOM, BRENDA

INGERSOLL RAND, ARO CORPORATION SITE
CHEEKTOWAGA, NEW YORK
OFF-SITE VAPOR INTRUSION REPORT

Site Location Map

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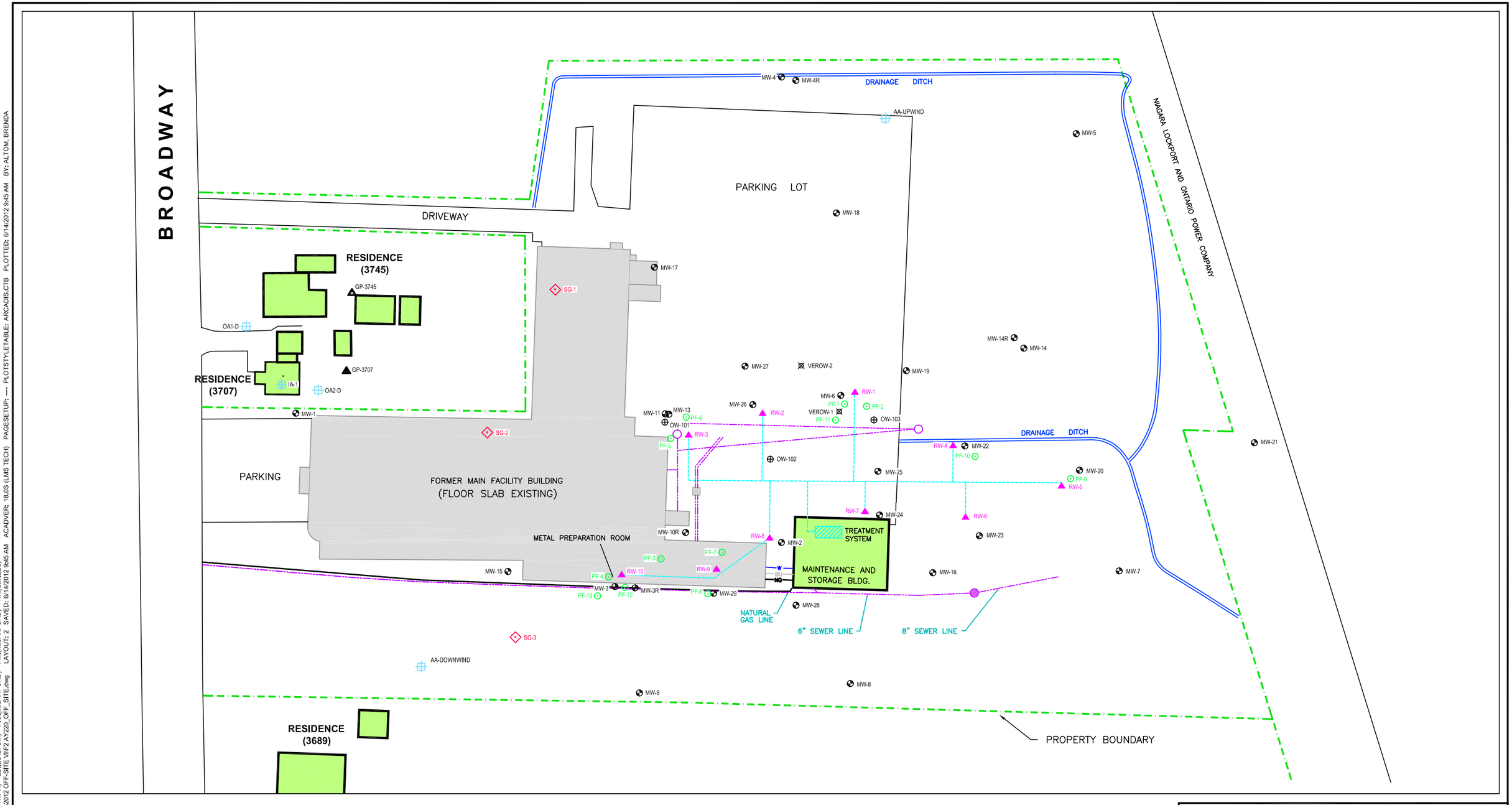
FIGURE
1



SOURCE: RAY L. SONNENBERGER LAND SURVEYOR, 1997

LEGEND

MW–17	MONITORING WELL LOCATION AND DESIGNATION
OW–101	OBSERVATION WELL LOCATION AND DESIGNATION
RW–2	RECOVERY WELL LOCATION AND DESIGNATION
VEROW–2	MONITORING WELL LOCATION AND DESIGNATION
	RECOVERY SYSTEM TRENCH/PIPING
PF–2	PNEUMATIC FRACTURING WELL LOCATION AND DESIGNATION
SG–1	SOIL–GAS PROBE LOCATION
AA/OA	AMBIENT AIR SAMPLING LOCATION
IA	INDOOR AIR SAMPLING LOCATION
GP-3707	GEOPROBE GROUNDWATER SAMPLE (AUGUST 2010)

N

0 80 FT

INGERSOLL RAND, ARO CORPORATION SITE
CHEEKTOWAGA, NEW YORK
OFF-SITE VAPOR INTRUSION REPORT

Off-Site Sample Locations

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FIGURE **2**

CITY:(ALBANY) DIV/GROUP:(ENV) DB:(R.HOOTMAN) LD:(B.ALTOM) PIC:(M.SANFORD) PM:(M.SANFORD) TM:(G.MILES)
G:\ENV\CAD\Knoxville\ACT\AY000220\0016\000003\2012 OFF-SITE VIF\2 AY220_OFF_SITE.dwg LAYOUT: 2 SAVED: 6/14/2012 9:45 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/14/2012 9:45 AM BY: ALTOM, BRENDA
XREFS: IMAGES:
xref_AY220_gis
xref_AY220_base color

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Appendix A

Imagine the result

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Infrastructure · Water · Environment · Buildings

Ingersoll Rand Site

Data Review

Volatile Analyses

SDG# 480-17763-1

Analyses Performed By:
TestAmerica Laboratories
Amherst, NY
Tier III
Project: AY000220.0015.0007

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #480-17763-1 for samples collected in association with the Ingersoll Rand Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
OA1-U	480-17763-1	Air	03/23/12		X				
OA2-D	480-17763-2	Air	03/23/12		X				
IA1	480-17763-3	Air	03/23/12		X				

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Sample receipt condition		X		X	
Requested analyses and sample results		X		X	
Collection Technique (grab, composite, etc.)		X		X	
Methods of analysis		X		X	
Reporting limits		X		X	
Sample collection date		X		X	
Laboratory sample received date		X		X	
Sample preservation verification (as applicable)		X		X	
Sample preparation/extraction/analysis dates		X		X	
Fully executed Chain-of-Custody (COC) form completed		X		X	
Narrative summary of QA or sample problems provided		X		X	
Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and USEPA Region II SOP HW-31- Validating Air Samples Volatile Organic Analysis of Ambient Air In Canister by Method TO-15 of October 2006.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation	Return Canister Pressure
EPA TO-15	Air	30 days from collection to analysis	Ambient Temperature	> 1" Hg

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 24-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than 40% or less than 40% of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the established acceptance limits of 70% to 130%. The relative percent difference (RPD) between the LCS/LCSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for air matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Laboratory duplicates were not performed as part of this SDG.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 100% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

A field duplicate was not included in this SDG.

9. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: TO-15	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Canister return pressure/vacuum (>1"Hg)		X		X	
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks		X		X	
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks	X				X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)	X				
LCS/LCSD Precision (RPD)	X				
Field/Lab Duplicate (%D)	X				
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE: 

DATE: 06/24/12

CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-17763-1

Client Sample ID: **OA1-U**

Lab Sample ID: 480-17763-1
Client Matrix: Air

Date Sampled: 03/23/2012 1634
Date Received: 03/28/2012 1015

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-36009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eerai05.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	03/30/2012 1346			Final Weight/Volume:	500 mL
Prep Date:	03/30/2012 1346			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Trichloroethene	ND		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Trichloroethene	ND		0.21	0.21

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-17763-1

Client Sample ID: **OA2-D**

Lab Sample ID: 480-17763-2
Client Matrix: Air

Date Sampled: 03/23/2012 1636
Date Received: 03/28/2012 1015

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-36009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eerai06.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	03/30/2012 1441			Final Weight/Volume:	500 mL
Prep Date:	03/30/2012 1441			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Trichloroethene	ND		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Trichloroethene	ND		0.21	0.21

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-17763-1

Client Sample ID: IA1

Lab Sample ID: 480-17763-3
Client Matrix: Air

Date Sampled: 03/23/2012 1735
Date Received: 03/28/2012 1015

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-36009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eerai07.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	03/30/2012 1536			Final Weight/Volume:	500 mL
Prep Date:	03/30/2012 1536			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Trichloroethene	ND		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Trichloroethene	ND		0.21	0.21

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: MARC SANFORD	Sampled By: Jim Richert	1 of 1 COCs
Company: ARCADIS	Phone: 518/250-7385		
Address: 50 Fountain Plaza, Suite 600	Site Contact: Jim Richert		
City/State/Zip: Buffalo, NY 14202	TAL Contact: TONY BOGDAN - BUFFALO, NY		
Phone: 716-667-0900 or 6654			
FAX: 0279			
Project Name: IR SITE			
Site/location: Broadway Street	Analysis Turnaround Time		
PO # —	Standard (Specify) 2 WK		
	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 TCE ONLY	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
OA1-U	3/23/12	8:33	4:34	-30	-5	2768	6396	X											
OA2-D	3/23/12	8:36	4:36	-30	-6	2616	12573	X											
IA1	3/23/12	9:35	5:35	-30	-7	4246	6395	X											

Sampled by: Jim Richert
Mike Nasca

Temperature (Fahrenheit)	Interior	Ambient
Start	60°	58°
Stop	60°	68°

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

NO CUSTODY SEALS
RECEIVED AT AMBIENT TEMP
DISP 3-27-12
1 BOX FEDEX # 448502606978

3 CANS / 6 FLOWS / 40 c.c.

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 03/23/12 1930	Received by:
Relinquished by:	Date/Time:	Received by: 3-27-12 10:00

05/26/12 1640

Relinquished by: 3/27/12 1317

TA-BUR 3/28/12 1015

04/16/2012

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: MARC SANFORD	Sampled By: Jim Richert	1 of 1 COCs
Company: AREADIS	Phone: 518/250-7385		
Address: 50 Fountain PLAZA, Suite 600	Site Contact: Jim Richert		
City/State/Zip: BUFFALO, NY, 14202	TAL Contact: TONY BOGDAN - BUFFALO, NY		
Phone: 716-667-0900 or 6654			
FAX: ——— 0279			
Project Name: IR SITE	Analysis Turnaround Time		
Site/location: BROADWAY STREET	✓ Standard (Specify) 2 WK		
PO # —	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 TCE ONLY	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
OA1-U	3/23/12	8:33	4:34	-30	-5	2768	6396	X											
OA2-D	3/23/12	8:36	4:36	-30	-6	2616	12573	X											
IA1	3/23/12	9:35	5:35	-30	-7	4246	6395	X											

Page 154 of 156

Sampled by: Jim Richert
Mike Nasca

Temperature (Fahrenheit)	Interior	Ambient
Start	60°	58°
Stop	60°	68°

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

NO CUSTODY SEALS
RECEIVED AT AMBIENT TEMP
DISD 3-27-12
1 BOX FEDEX # 448502606978

3 CANS / 6 FLOWS / 60 C.C.

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:	
Samples Relinquished by:	Date/Time: 03/23/12 1930	Received by:	
Relinquished by: 03/26/12 1640	Date/Time:	Received by: 3-27-12 10:00	

Relinquished by: 3/27/12 1317

TA BUR 3/28/12 1015