



engineering and constructing a better tomorrow

March 17, 2008

Division of Environmental Remediation
Remedial Bureau E, 12th Floor
New York State Department of
Environmental Conservation
625 Broadway
Albany, New York 12233-7017

Attention: Mr. Benjamin Rung, Project Manager

Subject: **Addendum to Vapor Intrusion Evaluation Letter Report**
Becker Electronics Manufacturing Site - Site No. 4-20-007
MACTEC Engineering and Consulting, P.C. Project No. 3612072072

Dear Mr. Rung,

MACTEC Engineering and Consulting, P.C., (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC) is pleased to present this report documenting additional air sampling activities and results at the Becker Electronics Manufacturing Site # 4-20-007 (Site). In 2007, MACTEC conducted a Vapor Intrusion Evaluation (VIE) for the NYSDEC under Immediate Investigation Work Assignment (IIWA) #D004434-02, dated January 5, 2007. The findings of the VIE were presented in a Vapor Intrusion Evaluation Letter Report dated July 30, 2007.

This Addendum to the VIE Letter Report provides the results of additional air sampling activities that were completed at one residence in January 2008 at the request of the NYSDEC. The additional sampling event consisted of a second round of sub-slab soil vapor and basement air samples that were collected at the residence identified as location V-9 in the VIE Report. The activities completed and the analytical results are discussed below. Enclosures include: tables

presenting the final analytical results, an indoor air questionnaire and inventory record, and a Data Usability Summary Report (DUSR).

The air samples were obtained over a 24-hour period from noon on January 9, 2008 to noon on January 10, 2008. MACTEC completed an indoor air survey, and obtained sub-slab soil vapor and indoor air samples, as agreed upon with the homeowner and as deemed appropriate by the NYSDEC and the New York State Department of Health (NYSDOH).

The indoor air survey and product inventory were conducted using the modified NYSDOH “Indoor Air Quality Questionnaire and Building Inventory” (inventory form) form. A parts per billion (ppb) MiniRae PID was used to scan inventoried items that may have been off-gassing VOCs. VOCs that were listed on the household container and were also included on the air sample analytical target compound list were noted on the inventory form, along with any PID readings. The completed inventory form is attached.

The sub-slab soil vapor samples were collected at the same location that was sampled in 2006. A one-inch diameter hole was drilled two inches into the building’s concrete floor using an electric hammer drill. The hole was continued with a 3/8-inch drill bit, through the building slab to a depth of approximately three-inches below the slab. Drill cuttings and dust from the area were removed. A ¼-inch piece of Teflon tubing was inserted into the hole, so that the bottom of the tubing was below the slab floor and the annular space between the tubing and concrete was sealed with hydrated bentonite clay. One 60 cubic centimeter (cc) volume of air was purged from the tubing with a polyethylene syringe. The syringe was capped and the air released outside the building as to not interfere with the indoor air sample collection. A 6-liter SUMMA[®]-type canister with a 24-hour flow valve was then connected to the tubing with Swagelok[®] fittings. Two indoor air samples consisting of a prime field sample and a duplicate sample were collected in 6-liter SUMMA[®]-type canisters from the basement level in the vicinity of the sub-slab vapor sample collection point. An ambient air sample was positioned outside the residence to document outside air conditions during the indoor sampling event.

*March 2008
Draft*

The samples were analyzed by Con-Test Analytical Laboratory of East Longmeadow, Massachusetts for VOCs via USEPA Method TO-15. Laboratory analysis included Category B deliverables. Upon receipt of the analytical laboratory data, MACTEC determined that the laboratory data met the project specific criteria for data quality and data use. The completed Data Usability Summary Report (DUSR) and validated Form 1's are attached. Validated results are presented in Table 1.

Table 2 compares selected results from the 2006 and 2007 sampling events. Results for tetrachloroethene (PCE), trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA) are shown. The NYSDOH has promulgated guidance values for soil vapor for these compounds. Other organic compounds, if detected, were identified at low levels or are not compounds that are associated with the historic release at the Becker Site. The NYSDOH guidance values are only applicable when evaluating sub-slab soil vapor samples in relation to indoor air concentrations. The results indicate that levels of chlorinated solvent-type organic contaminants in the 2008 samples are below the NYSDOH guidance criteria.

If you have any questions or concerns, please contact either John Peterson or Eric Sandin at 207-775-5401.

Sincerely,

MACTEC Engineering and Consulting, P.C.


John W. Peterson
Principal


Eric C. Sandin
Project Manager

Enclosures (2)

Table 1: Air VOC Results

Location Name Field Sample ID Field Sample Date QC Code	SS-009		BA-009		BA-009		AA-009	
	420007-SS00902		420007-BA00902		420007-BA00902DUP		420007-AA00902	
	1/10/2008		1/10/2008		1/10/2008		1/10/2008	
	FS		FS		FD		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	90		1.4		1.3		0.19	U
1,1,2,2-Tetrachloroethane	0.24	U	0.24		0.24	U	0.24	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.54	U	0.54	U	0.54	U	0.54	U
1,1,2-Trichloroethane	0.19	U	0.19	U	0.19	U	0.19	U
1,1-Dichloroethane	17		0.14	U	0.14	U	0.14	U
1,1-Dichloroethene	1.7		0.28	U	0.28	U	0.28	U
1,2,4-Trichlorobenzene	0.52	U	0.52	U	0.52	U	0.52	U
1,2,4-Trimethylbenzene	8.1		1.6	J	0.21	J	0.18	U
1,2-Dibromoethane	0.27	U	0.27	U	0.27	U	0.27	U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.49	U	0.49	U	0.49	U	0.49	U
1,2-Dichlorobenzene	0.21	U	0.21	U	0.21	U	0.21	U
1,2-Dichloroethane	0.14	U	0.14	U	0.14	U	0.14	U
1,2-Dichloropropane	0.17	U	0.17	U	0.17	U	0.17	U
1,3,5-Trimethylbenzene	2.5		0.83	J	0.18	UJ	0.18	U
1,3-Dichlorobenzene	0.21	U	0.21	U	0.21	U	0.21	U
1,4-Dichlorobenzene	0.21	U	0.21	U	0.21	U	0.21	U
2-Butanone	2.8		2.2	J	0.43	J	2.8	
2-Hexanone	1.2		0.8	J	0.14	UJ	0.46	
2-Propanol	1.3		0.69		0.43		0.58	
4-Ethyltoluene	1.5		0.41	J	0.18	UJ	0.18	U
4-Methyl-2-pentanone	0.52		0.14	U	0.14	U	0.14	U
Acetone	37	J	10	J	4.3	J	9.6	J
Benzene	0.74		0.47		0.4		0.42	
Benzyl chloride	0.19	U	0.19	U	0.19	U	0.19	U
Bromodichloromethane	0.24	U	0.23		0.24	U	0.24	U
Bromoform	0.36	U	0.36	U	0.36	U	0.36	U
Bromomethane	0.28	U	0.28	U	0.28	U	0.28	U
Butadiene, 1,3-	0.16	U	0.16	U	0.16	U	0.16	U
Carbon disulfide	12		0.22	U	0.22	U	0.22	U
Carbon tetrachloride	0.22		0.31		0.31		0.31	
Chlorobenzene	0.55		0.17	U	0.17	U	0.17	U
Chlorodibromomethane	0.31	U	0.31	U	0.31	U	0.31	U
Chloroethane	0.1	U	0.1	U	0.1	U	0.1	U
Chloroform	0.99		0.17	U	0.17	U	0.17	U
Chloromethane	0.51		0.78		0.78		0.94	
Cis-1,2-Dichloroethene	0.44		0.14	U	0.14	U	0.14	U
cis-1,3-Dichloropropene	0.16	U	0.16	U	0.16	U	0.16	U
Cyclohexane	1.9		1	J	0.12	UJ	0.12	U
Dichlorodifluoromethane	1.9		1.8		1.9		1.9	
Ethanol	9.4	J	10	J	10	J	4.3	J
Ethyl acetate	0.55		0.26	U	0.26	U	0.26	U
Ethyl benzene	17		0.27		0.24		0.16	U
Heptane	4		1.6	J	0.14	UJ	0.14	U

Table 1: Air VOC Results

Location Name	SS-009		BA-009		BA-009		AA-009	
Field Sample ID	420007-SS00902		420007-BA00902		420007-BA00902DUP		420007-AA00902	
Field Sample Date	1/10/2008		1/10/2008		1/10/2008		1/10/2008	
QC Code	FS		FS		FD		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Hexachlorobutadiene	0.75	U	0.75	U	0.75	U	0.75	U
Hexane	2		4.2	J	0.52	J	0.3	
Methyl Tertbutyl Ether	0.13	U	0.13	U	0.13	U	0.13	U
Methylene chloride	1.7	J	1.7	J	0.88	J	0.7	J
o-Xylene	8.6		0.24		0.21		0.16	U
Propylene	0.13	U	0.13	U	0.13	U	0.13	U
Styrene	0.63		0.15	U	0.15	U	0.15	U
Tetrachloroethene	1.7		0.57	J	0.24	UJ	0.24	U
Tetrahydrofuran	0.11	U	0.11	U	0.11	U	0.11	U
Toluene	67		1.1		1.1		0.4	
trans-1,2-Dichloroethene	0.28	U	0.28	U	0.28	U	0.28	U
trans-1,3-Dichloropropene	0.16	U	0.16	U	0.16	U	0.16	U
Trichloroethene	8.3		0.19	U	0.19	U	0.19	U
Trichlorofluoromethane	0.98		0.94		0.94		0.94	
Vinyl acetate	1.7		1.6	J	0.25	J	1.5	
Vinyl chloride	0.1	U	0.1	U	0.1	U	0.1	U
Xylene, m/p	39		1.2	J	0.67	J	0.31	U

Notes:

Results in microgram per cubic meter (µg/m3)

Samples analyzed for VOCs by EPA Method TO-15

Bold = Compound detected above the MDL

Location Code:

SS = Sub-Slab Vapor Sample

BA = Basement Indoor Air Sample

AA = Ambient Outdoor Air Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated value

QC Code:

FS = Field Sample

FD = Field Duplicate

Table 2
Residence V-9 2007 and 2008 Data Comparison

Location ID	Address	Sample Type	1,1,1-TCA		PCE		TCE	
			Feb-07	Jan-08	Feb-07	Jan-08	Feb-07	Jan-08
Residence V-9		AA	0.44 U	0.19 U	0.55 U	0.24 U	0.17 U	0.19 U
		SS	220	90	1.6	1.7	25	8.3
		BA	3.3	1.4	0.54 U	0.57 J	0.27	0.19 U
		FA	1.1	NS	0.68 U	NS	0.22 U	NS

Notes:

Results in microgram per cubic meter ($\mu\text{g}/\text{m}^3$)

Samples analyzed for VOCs by USEPA Method TO-15.

Qualifiers:

U = not detected at concentration shown

J = estimated value

1,1,1-TCA = 1,1,1-Trichloroethane

PCE = Tetrachloroethene

TCE = Trichloroethene

NFA = No Further Action

Sample Type = Sample location name (First two Digits)

AA = Ambient Air

SV = Soil Vapor

BA = Basement Air

FA = First Floor Air

NS = Not Sampled

Only select VOCs for which the NYSDOH has promulgated guidance values for soil vapor are shown.

Results in **BOLD** exceed the sub-slab guidance criteria established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (New York State Department of Health, 2005).

*Addendum to VIE Letter Report — Becker Electronics Manufacturing Site
NYSDEC — Site No. 4-20-007
MACTEC Engineering and Consulting, P.C. Project No. 3612072072*

*March 2008
Draft*

**Indoor Air Quality Questionnaire
Building Inventory Form**

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Mark Maggiora Date/Time Prepared 1/9/02 @ 13:30

Preparer's Affiliation Mactec - Portland, ME Phone No. 207-822-3317

Purpose of Investigation Soil Vapor Intrusion Investigation Site 42007
✓ Backton Electronics

1. OCCUPANT:

Interviewed: Y/N

Last Name: Norbury First Name: Guy

Address: 2146 Rt 415 → Behind Home; East Durham, NH

County: Greene

Home Phone: 603-634-7724 Office Phone: 2-2-412-5000 (x24)

Number of Occupants/persons at this location 6 Age of Occupants 11, 52, 49

2. OWNER OR LANDLORD: (Check if same as occupant ✓)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

Sample ID: V-9

pg 1 of 8

If the property is residential, type? (Circle appropriate response)

Ranch
 Raised Ranch
 Cape Cod
 Duplex
 Modular

2-Family
 Split Level
 Contemporary
 Apartment House
 Log Home

3-Family
 Colonial
 Mobile Home
 Townhouses/Condos
 Other: _____

If multiple units, how many? 1

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N NA If yes, how many? _____

Other characteristics:

Number of floors 1

Building age before 1966

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

Sample ID: V-9

pg 2 of 8

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y/N by bulk head
- k. Water in sump? Y/N not applicable

Basement/Lowest level depth below grade: 2 1/2 ft (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

cracks

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	<u>Hot water baseboard</u>
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas	<u>Fuel Oil</u>	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: oil w/ furnace

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Sample ID: V-9

P5 3 of 8

Are there air distribution ducts present?

Y/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

Storage / laundry

1st Floor

family room, dining room, office space

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/N

b. Does the garage have a separate heating unit?

Y/N/NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y/N/NA

Please specify _____

d. Has the building ever had a fire?

Y/N When? _____

e. Is a kerosene or unvented gas space heater present?

Y/N Where? _____

f. Is there a workshop or hobby/craft area?

Y/N Where & Type? _____

g. Is there smoking in the building?

Y/N How frequently? _____

h. Have cleaning products been used recently?

Y/N When & Type? _____

i. Have cosmetic products been used recently?

Y/N When & Type? _____

pilot

- j. Has painting/staining been done in the last 6 months? Y/N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y/N Where & When? _____
- l. Have air fresheners been used recently? Y/N When & Type? Candles
- m. Is there a kitchen exhaust fan? Y/N If yes, where vented? Outside
- n. Is there a bathroom exhaust fan? Y/N If yes, where vented? 0
- o. Is there a clothes dryer? Y/N If yes, is it vented outside? Y/N
- p. Has there been a pesticide application? Y/N When & Type? _____

Are there odors in the building?

If yes, please describe: _____

Do any of the building occupants use solvents at work? Y/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? _____

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y/N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well 100' bgs Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

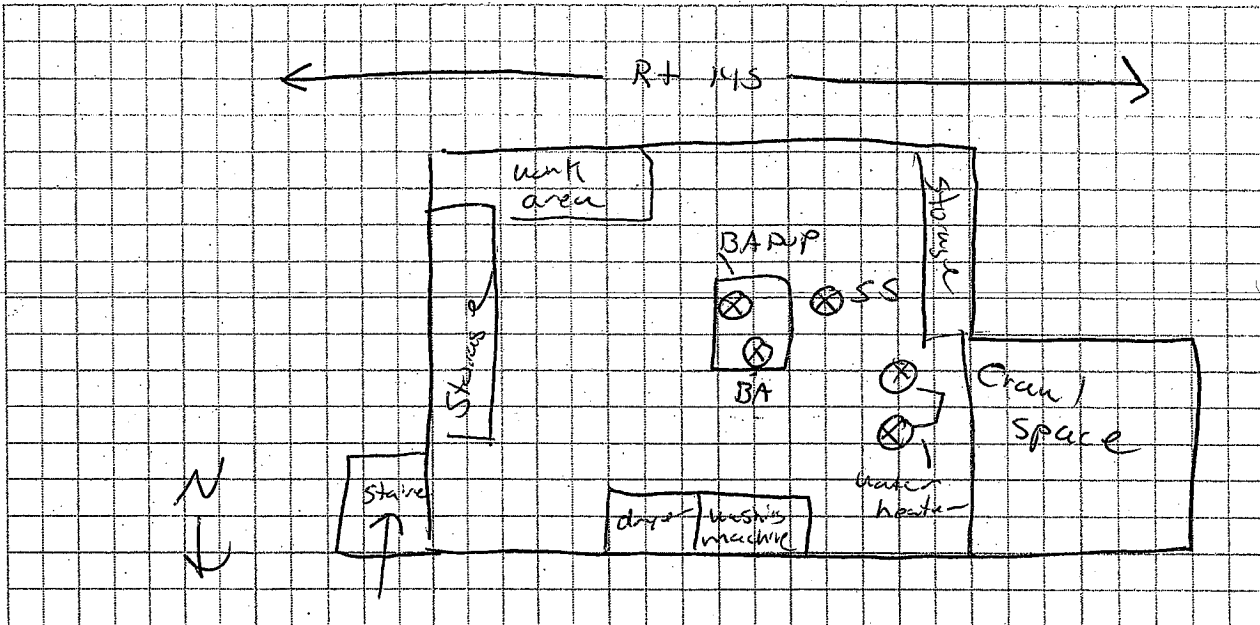
d. Relocation package provided and explained to residents? Y/N

PH of 5

11. FLOOR PLANS

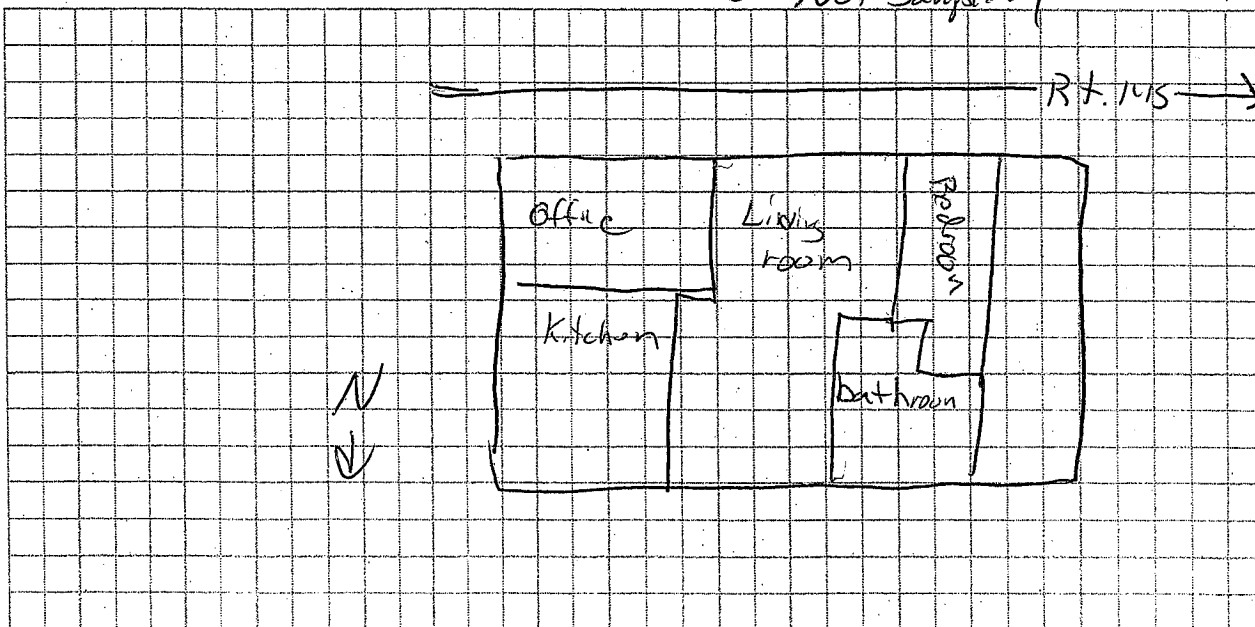
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:

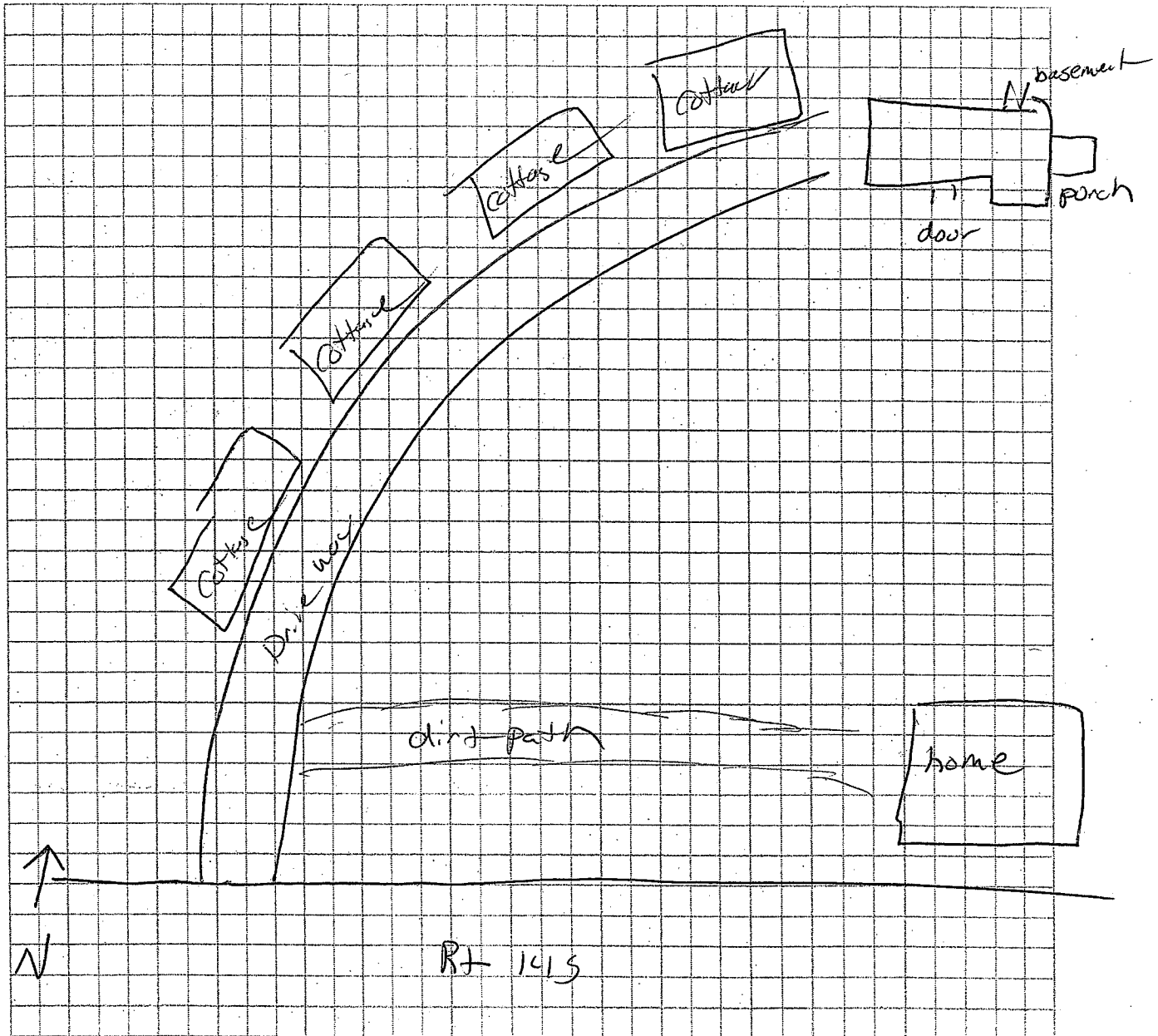
First Floor Not Sampled



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Sample ID: V-9

pg 7 of 8

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE 150769

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
Basement	Liquid oil	20 fl oz	U	Petroleum	<10	N
	liquid wrench	4 fl	U	oil based	<10	
	polyurethane stain	32 fl	U	Hydrocarbons	<10	
	tung oil	32 fl	U	Hydrocarbons	<10	
	Locktite	3.507	U	Hydrocarbons	<10	
	Bug Killer	3.702	U	NA	<10	
	S. House Sealer	1 pint	UO	NA	<10	
	Sealant	10 fl	UO	solvents, toluene	<10	
	wood stain	3.75	U	NA	20 ppb	
	paint	32 fl	U	NA	<10	
	wood finish	32 fl	U	Hydrocarbons	<10	
	All purpose cleaner	1 gal	U	Non Toxic	<10	
	Carpet Finish	10.502	U	NA	<10	
	wall paper-stripper	1 gal	U	Diethylene Glycol Triethylene Glycol Sodium Benz	<10	
	rust oleum	8 fl oz	U	Oil based	<10	

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

*Addendum to VIE Letter Report — Becker Electronics Manufacturing Site
NYSDEC — Site No. 4-20-007
MACTEC Engineering and Consulting, P.C. Project No. 3612072072*

*March 2008
Draft*

Data Usability Summary Report

DATA USABILITY SUMMARY REPORT
2008 SAMPLING EVENT
BECKER ELECTRONICS
EAST DURHAM, NEW YORK

1.0 INTRODUCTION:

Indoor air samples were collected at the Becker Electronics site in January of 2008 and submitted for off-site laboratory analyses. Indoor air samples were analyzed by Con-Test located in East Longmeadow, Massachusetts. A listing of samples included in this investigation is presented in Table 1. A summary of the analytical results is presented in Appendix E, Tables 1.1. Samples were analyzed for the following parameters:

- Air: VOCs by EPA Method TO-15

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2000).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 AIR - VOLATILE ORGANIC COMPOUNDS (TO-15)

Initial Calibration

The initial calibration associated with all samples in the SDG had a relative standard deviation that was greater than the control limit of 30 for acetone (46%) and ethanol (52.4%). The results for these compounds in samples 420007-SS00902, 420007-BA00902, 420007-BA00902DUP, and 420007-AA00902 were positive and qualified as estimated J.

QC Blanks

Methylene chloride was detected in the method blank ($0.60 \mu\text{g}/\text{m}^3$) for the associated samples 420007-SS00902, 420007-BA00902, 420007-BA00902DUP, 420007-AA00902. The results for this compound in the samples listed above were positive and qualified as estimated (J), and may be potentially biased high.

Field Duplicates

Sample 420007-BA00902 was chosen as the field duplicate. The relative percent differences between sample 420007-BA00902 and its field duplicate were greater than the control limit of 30 for acetone (60), 2-butanone (135), cyclohexane (157), 4-ethyl tolulene (>77), n-heptane (>100), hexane (56), 2-hexanone (>140), tetrachloroethene (>50), 1,2,4 trimethylbenzene (148), 1,3,5 trimethylbenzene (127), vinyl acetate (140), and m,p zylene (57). The results for these compounds were qualified as estimated (J) in these two samples.

The laboratory duplicate associated with sample 420007-AA00902 had results within criteria.

Miscellaneous

Sample IDs were reported on the chain of custody incorrectly, and were altered on the Form 1s and in the EDD to match previous sampling events.

TABLE 1
Sample Summary

SDG	Field Sample ID	Lab Sample ID	Method	Sample Date	Matrix	QC Code
LIMIT-12798	420007-AA00902	08B01546	TO-15	1/10/2008	AIR	FS
LIMIT-12798	420007-SS00902	08B01543	TO-15	1/10/2008	AIR	FS
LIMIT-12798	420007-BA00902	08B01544	TO-15	1/10/2008	AIR	FS
LIMIT-12798	420007-BA00902DUP	08B01545	TO-15	1/10/2008	AIR	FD

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2000. "Analytical Services Protocols"; June 2000.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Brandon A. L. Shaw



Date February 12, 2008

Quality Assurance Officer:

Date:



con-test[®]
ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/22/2008

MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101
ATTN: ERIC SANDIN

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200800897

PROJECT NUMBER: 3612072072.02

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-12798

JOB NUMBER: 3612072072.02 ✓

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: NORBURY RESIDENCE-2146 RT. 145

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
420007-V95502	① 08B01543	AIR	SUB-SLAB BASEMENT ✓	to-15 ppbv
420007-V95502	08B01543	AIR	SUB-SLAB BASEMENT	to-15 ug/m3
420007-V9AA02	② 08B01546	AIR	AMBIENT	to-15 ppbv
420007-V9AA02	08B01546	AIR	AMBIENT	to-15 ug/m3
420007-V9BA02	③ 08B01544	AIR	BASEMENT	to-15 ppbv
420007-V9BA02	08B01544	AIR	BASEMENT	to-15 ug/m3
420007-V9BA02DU	④ 08B01545	AIR	BASEMENT	to-15 ppbv
420007-V9BA02DU	08B01545	AIR	BASEMENT	to-15 ug/m3

7 Δ to 420007 - V95502

✓ Changed Sample IDs

- ① 420007 - AA00902
- ② 420007 - SS00902
- ③ 420007 - BA00902
- ④ 420007 - BA00902 Dup.

✓ BAS 02-11-08

ERIC SANDIN
 MACTEC, INC. - ME
 511 CONGRESS STREET
 PORTLAND, ME 04101

Purchase Order No.: 200800897

 1/22/2008
 Page 16 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145

Project Number: 3612072072.02

Date Received: 1/11/2008

LIMS-BAT #: LIMIT-12798

Field Sample #: 420007-V9AA02 → 420007-AA06902

Job Number: 3612072072.02

Sample ID: 08B01546

Sampled: 1/10/2008

AMBIENT

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Acetone	ug/m3	9.6 J	01/18/08	WSD	0.09			
Benzene	ug/m3	0.42	01/18/08	WSD	0.12			
Benzyl Chloride	ug/m3	ND	01/18/08	WSD	0.19			
Bromodichloromethane	ug/m3	ND	01/18/08	WSD	0.24			
Bromoform	ug/m3	ND	01/18/08	WSD	0.36			
Bromomethane	ug/m3	ND	01/18/08	WSD	0.28			
1,3-Butadiene	ug/m3	ND	01/18/08	WSD	0.16			
2-Butanone (MEK)	ug/m3	2.8	01/18/08	WSD	0.17			
Carbon Disulfide	ug/m3	ND	01/18/08	WSD	0.22			
Carbon Tetrachloride	ug/m3	0.31	01/18/08	WSD	0.22			
Chlorobenzene	ug/m3	ND	01/18/08	WSD	0.17			
Chlorodibromomethane	ug/m3	ND	01/18/08	WSD	0.31			
Chloroethane	ug/m3	ND	01/18/08	WSD	0.10			
Chloroform	ug/m3	ND	01/18/08	WSD	0.17			
Chloromethane	ug/m3	0.94	01/18/08	WSD	0.07			
Cyclohexane	ug/m3	ND	01/18/08	WSD	0.12			
1,2-Dibromoethane	ug/m3	ND	01/18/08	WSD	0.27			
1,2-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21			
1,3-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21			
1,4-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21			
Dichlorodifluoromethane	ug/m3	1.9	01/18/08	WSD	0.18			
1,1-Dichloroethane	ug/m3	ND	01/18/08	WSD	0.14			
1,2-Dichloroethane	ug/m3	ND	01/18/08	WSD	0.14			
1,1-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.28			
cis-1,2-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.14			
t-1,2-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.28			
1,2-Dichloropropane	ug/m3	ND	01/18/08	WSD	0.17			
cis-1,3-Dichloropropene	ug/m3	ND	01/18/08	WSD	0.16			
trans-1,3-Dichloropropene	ug/m3	ND	01/18/08	WSD	0.16			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/18/08	WSD	0.49			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

 ✓
 B75
 02-11-08

ERIC SANDIN
 MACTEC, INC. - ME
 511 CONGRESS STREET
 PORTLAND, ME 04101

Purchase Order No.: 200800897

 1/22/2008
 Page 17 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145

Project Number: 3612072072.02

Date Received: 1/11/2008

LIMS-BAT #: LIMIT-12798

Field Sample #: 420007-V9AA02 → 420007-AA00902

Job Number: 3612072072.02

Sample ID: 08B01546

Sampled: 1/10/2008

AMBIENT

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Ethanol	ug/m3	4.3 J	01/18/08	WSD	0.07		
Ethyl Acetate	ug/m3	ND	01/18/08	WSD	0.26		
Ethylbenzene	ug/m3	ND	01/18/08	WSD	0.16		
4-Ethyl Toluene	ug/m3	ND	01/18/08	WSD	0.18		
n-Heptane	ug/m3	ND	01/18/08	WSD	0.14		
Hexachlorobutadiene	ug/m3	ND	01/18/08	WSD	0.75		
Hexane	ug/m3	0.30	01/18/08	WSD	0.13		
2-Hexanone	ug/m3	0.46	01/18/08	WSD	0.14		
Isopropanol	ug/m3	0.58	01/18/08	WSD	0.09		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	01/18/08	WSD	0.13		
Methylene Chloride	ug/m3	0.70 J	01/18/08	WSD	0.12		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	01/18/08	WSD	0.14		
Propene	ug/m3	ND	01/18/08	WSD	0.13		
Styrene	ug/m3	ND	01/18/08	WSD	0.15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/18/08	WSD	0.24		
Tetrachloroethylene	ug/m3	ND	01/18/08	WSD	0.24		
Tetrahydrofuran	ug/m3	ND	01/18/08	WSD	0.11		
Toluene	ug/m3	0.40	01/18/08	WSD	0.14		
1,2,4-Trichlorobenzene	ug/m3	ND	01/18/08	WSD	0.52		
1,1,1-Trichloroethane	ug/m3	ND	01/18/08	WSD	0.19		
1,1,2-Trichloroethane	ug/m3	ND	01/18/08	WSD	0.19		
Trichloroethylene	ug/m3	ND	01/18/08	WSD	0.19		
Trichlorofluoromethane	ug/m3	0.94	01/18/08	WSD	0.20		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/18/08	WSD	0.54		
1,2,4-Trimethylbenzene	ug/m3	ND	01/18/08	WSD	0.18		
1,3,5-Trimethylbenzene	ug/m3	ND	01/18/08	WSD	0.18		
Vinyl Acetate	ug/m3	1.5	01/18/08	WSD	0.13		
Vinyl Chloride	ug/m3	ND	01/18/08	WSD	0.10		
m/p-Xylene	ug/m3	ND	01/18/08	WSD	0.31		
o-Xylene	ug/m3	ND	01/18/08	WSD	0.16		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

 ✓
 BAS
 02-11-08

ERIC SANDIN
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: 200800897

1/22/2008
Page 18 of 25

Project Number: 3612072072.02
LIMS-BAT #: LIMIT-12798
Job Number: 3612072072.02

Project Location: NORBURY RESIDENCE-2146 RT. 145

Date Received: 1/11/2008

Field Sample #: 420007-V9AA02 → 420007-AA 60902

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

✓
BT
02-11-08

ERIC SANDIN
 MACTEC, INC. - ME
 511 CONGRESS STREET
 PORTLAND, ME 04101

Purchase Order No.: 200800897

 1/22/2008
 Page 19 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145

Project Number: 3612072072.02

Date Received: 1/11/2008

LIMS-BAT #: LIMIT-12798

Field Sample #: 420007-V9BA02 → 420007-BA00902

Job Number: 3612072072.02

Sample ID: 08B01544

Sampled: 1/10/2008

BASEMENT

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Acetone	ug/m3	10 J	01/18/08	WSD	0.09			
Benzene	ug/m3	0.47	01/18/08	WSD	0.12			
Benzyl Chloride	ug/m3	ND	01/18/08	WSD	0.19			
Bromodichloromethane	ug/m3	0.23	01/18/08	WSD	0.24			
Bromoform	ug/m3	ND	01/18/08	WSD	0.36			
Bromomethane	ug/m3	ND	01/18/08	WSD	0.28			
1,3-Butadiene	ug/m3	ND	01/18/08	WSD	0.16			
2-Butanone (MEK)	ug/m3	2.2 J	01/18/08	WSD	0.17			
Carbon Disulfide	ug/m3	ND	01/18/08	WSD	0.22			
Carbon Tetrachloride	ug/m3	0.31	01/18/08	WSD	0.22			
Chlorobenzene	ug/m3	ND	01/18/08	WSD	0.17			
Chlorodibromomethane	ug/m3	ND	01/18/08	WSD	0.31			
Chloroethane	ug/m3	ND	01/18/08	WSD	0.10			
Chloroform	ug/m3	ND	01/18/08	WSD	0.17			
Chloromethane	ug/m3	0.78	01/18/08	WSD	0.07			
Cyclohexane	ug/m3	1.0 J	01/18/08	WSD	0.12			
1,2-Dibromoethane	ug/m3	ND	01/18/08	WSD	0.27			
1,2-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21			
1,3-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21			
1,4-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21			
Dichlorodifluoromethane	ug/m3	1.8	01/18/08	WSD	0.18			
1,1-Dichloroethane	ug/m3	ND	01/18/08	WSD	0.14			
1,2-Dichloroethane	ug/m3	ND	01/18/08	WSD	0.14			
1,1-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.28			
cis-1,2-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.14			
t-1,2-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.28			
1,2-Dichloropropane	ug/m3	ND	01/18/08	WSD	0.17			
cis-1,3-Dichloropropene	ug/m3	ND	01/18/08	WSD	0.16			
trans-1,3-Dichloropropene	ug/m3	ND	01/18/08	WSD	0.16			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/18/08	WSD	0.49			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

 ✓
 BAS
 02-11-08

ERIC SANDIN
 MACTEC, INC. - ME
 511 CONGRESS STREET
 PORTLAND, ME 04101

Purchase Order No.: 200800897

 1/22/2008
 Page 20 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145

Project Number: 3612072072.02

Date Received: 1/11/2008

LIMS-BAT #: LIMIT-12798

Field Sample #: 420007-V9BA02 → 420007-BA 00902

Job Number: 3612072072.02

Sample ID: 08B01544

Sampled: 1/10/2008

BASEMENT

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Ethanol	ug/m3	10 J	01/18/08	WSD	0.07		
Ethyl Acetate	ug/m3	ND	01/18/08	WSD	0.26		
Ethylbenzene	ug/m3	0.27	01/18/08	WSD	0.16		
4-Ethyl Toluene	ug/m3	0.41 J	01/18/08	WSD	0.18		
n-Heptane	ug/m3	1.6 J	01/18/08	WSD	0.14		
Hexachlorobutadiene	ug/m3	ND	01/18/08	WSD	0.75		
Hexane	ug/m3	4.2 J	01/18/08	WSD	0.13		
2-Hexanone	ug/m3	0.80 J	01/18/08	WSD	0.14		
Isopropanol	ug/m3	0.69	01/18/08	WSD	0.09		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	01/18/08	WSD	0.13		
Methylene Chloride	ug/m3	1.7 J	01/18/08	WSD	0.12		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	01/18/08	WSD	0.14		
Propene	ug/m3	ND	01/18/08	WSD	0.13		
Styrene	ug/m3	ND	01/18/08	WSD	0.15		
1,1,2,2-Tetrachloroethane	ug/m3	0.24	01/18/08	WSD	0.24		
Tetrachloroethylene	ug/m3	0.57 J	01/18/08	WSD	0.24		
Tetrahydrofuran	ug/m3	ND	01/18/08	WSD	0.11		
Toluene	ug/m3	1.1	01/18/08	WSD	0.14		
1,2,4-Trichlorobenzene	ug/m3	ND	01/18/08	WSD	0.52		
1,1,1-Trichloroethane	ug/m3	1.4	01/18/08	WSD	0.19		
1,1,2-Trichloroethane	ug/m3	ND	01/18/08	WSD	0.19		
Trichloroethylene	ug/m3	ND	01/18/08	WSD	0.19		
Trichlorofluoromethane	ug/m3	0.94	01/18/08	WSD	0.20		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/18/08	WSD	0.54		
1,2,4-Trimethylbenzene	ug/m3	1.6 J	01/18/08	WSD	0.18		
1,3,5-Trimethylbenzene	ug/m3	0.83 J	01/18/08	WSD	0.18		
Vinyl Acetate	ug/m3	1.6 J	01/18/08	WSD	0.13		
Vinyl Chloride	ug/m3	ND	01/18/08	WSD	0.10		
m/p-Xylene	ug/m3	1.2 J	01/18/08	WSD	0.31		
o-Xylene	ug/m3	0.24	01/18/08	WSD	0.16		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

 J.
 PAS
 02-11-08

ERIC SANDIN
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: 200800897

1/22/2008
Page 21 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145
Date Received: 1/11/2008

Project Number: 3612072072.02
LIMS-BAT #: LIMIT-12798
Job Number: 3612072072.02

Field Sample #: 420007-V9BA02 → 420007-BA00902

Analytical Method:
EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS
SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or
regulatory level for comparison with data to
determine PASS (P) or FAIL (F) condition of results.

✓
BAS
02-11-08

ERIC SANDIN
 MACTEC, INC. - ME
 511 CONGRESS STREET
 PORTLAND, ME 04101

Purchase Order No.: 200800897

 1/22/2008
 Page 22 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145

Project Number: 3612072072.02

Date Received: 1/11/2008

LIMS-BAT #: LIMIT-12798

Field Sample #: 420007-V9BA02DUP → 420007-BA00902DUP

Job Number: 3612072072.02

Sample ID: 08B01545

Sampled: 1/10/2008

BASEMENT

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Acetone	ug/m3	4.3 J	01/18/08	WSD	0.09		
Benzene	ug/m3	0.40	01/18/08	WSD	0.12		
Benzyl Chloride	ug/m3	ND	01/18/08	WSD	0.19		
Bromodichloromethane	ug/m3	ND	01/18/08	WSD	0.24		
Bromoform	ug/m3	ND	01/18/08	WSD	0.36		
Bromomethane	ug/m3	ND	01/18/08	WSD	0.28		
1,3-Butadiene	ug/m3	ND	01/18/08	WSD	0.16		
2-Butanone (MEK)	ug/m3	0.43 J	01/18/08	WSD	0.17		
Carbon Disulfide	ug/m3	ND	01/18/08	WSD	0.22		
Carbon Tetrachloride	ug/m3	0.31	01/18/08	WSD	0.22		
Chlorobenzene	ug/m3	ND	01/18/08	WSD	0.17		
Chlorodibromomethane	ug/m3	ND	01/18/08	WSD	0.31		
Chloroethane	ug/m3	ND	01/18/08	WSD	0.10		
Chloroform	ug/m3	ND	01/18/08	WSD	0.17		
Chloromethane	ug/m3	0.78	01/18/08	WSD	0.07		
Cyclohexane	ug/m3	ND J	01/18/08	WSD	0.12		
1,2-Dibromoethane	ug/m3	ND	01/18/08	WSD	0.27		
1,2-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21		
1,3-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21		
1,4-Dichlorobenzene	ug/m3	ND	01/18/08	WSD	0.21		
Dichlorodifluoromethane	ug/m3	1.9	01/18/08	WSD	0.18		
1,1-Dichloroethane	ug/m3	ND	01/18/08	WSD	0.14		
1,2-Dichloroethane	ug/m3	ND	01/18/08	WSD	0.14		
1,1-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.28		
cis-1,2-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.14		
t-1,2-Dichloroethylene	ug/m3	ND	01/18/08	WSD	0.28		
1,2-Dichloropropane	ug/m3	ND	01/18/08	WSD	0.17		
cis-1,3-Dichloropropene	ug/m3	ND	01/18/08	WSD	0.16		
trans-1,3-Dichloropropene	ug/m3	ND	01/18/08	WSD	0.16		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/18/08	WSD	0.49		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

 ↓
 BAS
 02-11-08

ERIC SANDIN
 MACTEC, INC. - ME
 511 CONGRESS STREET
 PORTLAND, ME 04101

Purchase Order No.: 200800897

1/22/2008

Page 23 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145

Project Number: 3612072072.02

Date Received: 1/11/2008

LIMS-BAT #: LIMIT-12798

Field Sample #: 420007-V9BA02DUP → 420007-BAT00902 Dup

Job Number: 3612072072.02

Sample ID: 08B01545

Sampled: 1/10/2008

BASEMENT

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Ethanol	ug/m3	10 J	01/18/08	WSD	0.07		
Ethyl Acetate	ug/m3	ND	01/18/08	WSD	0.26		
Ethylbenzene	ug/m3	0.24	01/18/08	WSD	0.16		
4-Ethyl Toluene	ug/m3	ND UJ	01/18/08	WSD	0.18		
n-Heptane	ug/m3	ND US	01/18/08	WSD	0.14		
Hexachlorobutadiene	ug/m3	ND	01/18/08	WSD	0.75		
Hexane	ug/m3	0.52 J	01/18/08	WSD	0.13		
2-Hexanone	ug/m3	ND UJ	01/18/08	WSD	0.14		
Isopropanol	ug/m3	0.43	01/18/08	WSD	0.09		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	01/18/08	WSD	0.13		
Methylene Chloride	ug/m3	0.88 J	01/18/08	WSD	0.12		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	01/18/08	WSD	0.14		
Propene	ug/m3	ND	01/18/08	WSD	0.13		
Styrene	ug/m3	ND	01/18/08	WSD	0.15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/18/08	WSD	0.24		
Tetrachloroethylene	ug/m3	ND UJ	01/18/08	WSD	0.24		
Tetrahydrofuran	ug/m3	ND	01/18/08	WSD	0.11		
Toluene	ug/m3	1.1	01/18/08	WSD	0.14		
1,2,4-Trichlorobenzene	ug/m3	ND	01/18/08	WSD	0.52		
1,1,1-Trichloroethane	ug/m3	1.3	01/18/08	WSD	0.19		
1,1,2-Trichloroethane	ug/m3	ND	01/18/08	WSD	0.19		
Trichloroethylene	ug/m3	ND	01/18/08	WSD	0.19		
Trichlorofluoromethane	ug/m3	0.94	01/18/08	WSD	0.20		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND XS	01/18/08	WSD	0.54		
1,2,4-Trimethylbenzene	ug/m3	0.21 J	01/18/08	WSD	0.18		
1,3,5-Trimethylbenzene	ug/m3	ND J	01/18/08	WSD	0.18		
Vinyl Acetate	ug/m3	0.25 J	01/18/08	WSD	0.13		
Vinyl Chloride	ug/m3	ND	01/18/08	WSD	0.10		
m/p-Xylene	ug/m3	0.67 J	01/18/08	WSD	0.31		
o-Xylene	ug/m3	0.21	01/18/08	WSD	0.16		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

 ✓
 BAS 02-11-08

ERIC SANDIN
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: 200800897

1/22/2008

Page 24 of 25

Project Location: NORBURY RESIDENCE-2146 RT. 145

Project Number: 3612072072.02

Date Received: 1/11/2008

LIMS-BAT #: LIMIT-12798

Field Sample #: 420007-V9BA02DUP → 420007-BA00902 D4P

Job Number: 3612072072.02

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

J
RAS
02-12-08.