Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PASSION
EXPERIENCE
RESULTS
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November 5, 2010

Mr. Frank Sowers, P.E.
NYSDEC
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Subject: **Soil Vapor Intrusion Sampling Results**
Former Churchville Ford Site #V00658-8
111 South Main Street, Churchville, New York

Dear Mr. Sowers,

The purpose of this letter is to identify and interpret the results of soil vapor intrusion (SVI) air sampling conducted at the former Churchville Ford facility on March 17, 2010 by Lu Engineers (Lu). This was the second SVI sampling event conducted by Lu in an effort to re-assess the sub-slab and interior air quality conditions following the implementation of remedial actions in the contaminant source area at the site. Soil vapor can migrate into a building through cracks in the foundation or slab, through floor drains, sumps or any other utility penetration due to a difference between interior and exterior pressures. It is recommended that sampling be conducted during the heating season due to the pressure differential associated with typical building heating systems.

In April 2007, SVI sampling conducted by Lu indicated that known chemicals (TCE, PCE, 1,1,1-TCA) associated with soil and groundwater contamination at the site were detected in the indoor air at concentrations exceeding New York State Department of Health (NYSDOH) guidelines, creating the potential for human exposures. It is noted that many of the chemicals detected in the indoor air were also actively used at the facility in chemical-based products utilized for daily cleaning, maintenance and repair operations conducted in the workshop. The products containing these chemicals and associated background concentrations detected at each container were inventoried during the sampling event.

In March 2010, re-sampling was conducted in accordance with the requirements outlined in the approved Remedial Action Work Plan (RAWP), dated December 2008. During this event, Lu collected two (2) sub-slab vapor samples (SVS-JCL-02b, SVS-JCL-03b) from beneath the workshop floor, three (3) indoor ambient samples, including a duplicate, from within the workshop (IA-JCL-02b, IA-JCL-02b Dup., IA-JCL-03b), and an outdoor ambient sample (OA-JCL-04b) collected northwest of the site building, as

indicated on the attached drawing. The samples were collected from the same general locations as the April 2007 event. The sampling was completed following remedial in-situ chemical oxidation treatment of Site groundwater in the chlorinated solvent source area per the activities outlined in the RAWP. The goal of the sampling was to assess what actions, if any, would be appropriate to take according to the *NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

Analytical results of the March 2010 sampling event revealed detectable concentrations of volatile organic compounds (VOCs) such as halocarbons, aromatics and keytones in all six samples collected. As summarized on attached Tables 1 and 2, sample results were compared to the OSHA Permissable Exposure Limits (PELs) regulatory standards and the decision matrices described in the *NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006. OSHA PELs were used for analytical comparison due to significant background readings of VOCs from active use of many chemical-based products within the workshop. Many of these products contained the same volatile compounds that were detected in both SVI sampling rounds.

The products and chemicals found within the workshop were inventoried as part of the sampling event and screened with a PID (ppB RAE). An inventory table is included as an attachment to this letter and indicates that PID readings ranged from 275 parts per billion (ppb) to 476,000 ppb throughout the workshop space. These interferences and daily use of such products make it appropriate to compare sample results to OSHA Permissible Exposure Limits (PELs) for an 8-hr time-weighted average (TWA) period, the same time period that employees occupy the workshop daily. Table 1 presents a comparison of the SVI sample results from April 2007 and March 2010, while Table 2 illustrates decision Matrix 1 and Matrix 2 of recommended actions found within the NYSDOH guidance document.

The contaminant trichloroethene (TCE) was not detected in the March 2010 indoor ambient, outdoor ambient or SVS-JCL-02b sub-slab air samples. It was detected at a concentration of 305 ug/m^3 in sub-slab sample SVS-JCL-03b, located in the known source area of this contaminant. The NYSDOH guidance document and Table 2 indicate that mitigation is recommended if the TCE concentration in the sub-slab air is in excess of 250 ug/m^3. Vinyl chloride was also detected in this sub-slab sample at a concentration of 2,490 ug/ m^3 but not in any of the indoor air samples. This compound is a known intermediate byproduct of TCE as it degrades and is likely a result of the recent remedial work conducted in this area. The increase in concentration of cis-1,2-Dichloroethene in this sample is also likely attributed to the degradation of TCE from the recent remedial work.

The VOC 1,1,1-TCA was not detected in any of the indoor or outdoor air samples collected in March 2010. Based on the concentrations of tetrachloroethylene (PCE) detected in samples SVS-JCL-03b and IA-JCL-03b, the NYSDOH guidance document recommends mitigation, as indicated on Table 2. It is noted however that the concentration of PCE detected in indoor sample IA-JCL-2b was higher than in the associated sub-slab sample SVS-JCL-2b. This is likely due to volatilization of products containing PCE that are stored and used within the workshop as indicated by the inventory form and may have influenced the result of sample IA-JCL-3b.

Analytical results indicate that no VOCs were detected above OSHA PELs. The majority of BTEX (petroleum related) compounds detected in the indoor air samples were at concentrations exceeding the sub-slab sample results for these compounds. This is likely due to the fact that prior to sample collection in March 2010, three (3) five-gallon containers of gasoline were being stored within the workshop as well as other petroleum products, vehicles and boats that contain fuel. The gasoline containers were removed from the building prior to sample collection but it is likely that residual vapors from these items were present during the sampling. Table 1 and the attached product inventory form indicate that the majority of BTEX compounds detected were also found in products inventoried within the workshop.

Attached is a copy of the sample results, the building inventory form completed during the sampling, two (2) tables summarizing the results of both sampling events and a map of the facility indicating each sample location and background PID readings. The decision matrices presented in the above-referenced NYSDOH guidance document are used to establish site-specific risk management tools. Based on the March 2010 sample results, the overall condition of the workshop floor slab, Lu recommends that "Slab Maintenance and Long-Term Monitoring" be implemented at the facility as outlined in the NYSDEC soil vapor intrusion letter, dated October 6, 2010. These actions are defined within the letter provided by the NYSDEC and include sealing potential sub-slab vapor entry points to minimize the ability of vapor to migrate into the indoor air. It is likely that sub-slab vapor concentrations in the contaminant source area will decrease over time as the chemical oxidant that was injected into the groundwater completes its destruction of the chlorinated solvents. The long-term monitoring can be used to determine whether concentrations in the indoor air or sub-slab vapor have changed.

If you have any questions regarding the sample results or recommendations made, please contact me at (585)385-7417, ext. 227.

Sincerely,

Eric Detweiler
Geologist
Lu Engineers, P.C.
175 Sullys Trail, Suite 202
Pittsford, NY 14534

Attachments

cc:
Benjamin Bonarigo - Bonarigo & McCutcheon
Jeff Kosmala - NYSDOH
Greg Andrus - Lu Engineers

OA-JCL-04/OA-JCL-04b

SG-10
(OUTDOOR AIR)

LOCATED ON WESTERN
PROPERTY BOUNDARY

ASPHALT PARKING

ASPHALT PARKING

248 ppb

CABINET
95 ppm

FORMER
SOLVENT
STORAGE AREA

135 ppb

SG-2

852 ppb

FORMER
SOLVENT
STORAGE
AREA

FIRST ADDITION (1989)

254 ppb

SG-4

SVS-JCL-02

SVS-JCL-02b

IA-JCL-02

IA-JCL-02b Dup. → ← IA-JCL-02b

IA-JCL-02
MS/MSD

110 ppb

ORIGINAL BUILDING
FOOTPRINT (1988)

752 ppb

SG-8
N/A

SG-7
N/A

FORMER
STORAGE SHED

SVS-JCL-03b → IA-JCL-03b

SVS-JCL-03

366 ppb

IA-JCL-03

145 ppb

SG-1

958 ppb

SG-3

217 ppb

SG-5

SG-9
(INDOOR AIR)

110 ppb

EXACT LOCATION
BASED ON BUILDING
USAGE

SECOND ADDITION (1995)

ASPHALT PARKING

SVS-JCL-01
(IN CLOSET)

98 ppb

SG-6
(IN CLOSET BENEATH STAIRS)

IA-JCL-01

FORMER USED OIL
AST LOCATION

ASPHALT PARKING

EXIT TO MAIN STREET

LEGEND

background interior reading (ppb)

FLOOR TRENCH DRAIN

STORMWATER CATCH BASIN

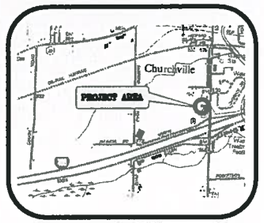
OIL/WATER SEPARATOR

APPROX. LOCATION OF
EXHAUST COLLECTION PORT

SOIL VAPOR INTRUSION
SAMPLE LOCATION (ENTRIX 2004)

SVS-JCL-00 — SOIL VAPOR INTRUSION
SAMPLE LOCATION (LU 2007)

SOIL VAPOR INTRUSION INVESTIGATION



DATE	REVISIONS	BY

DRAWING ALTERATION

WARNING: It is a violation of the New York State Education Law, Article 145, Section 7209, Special Provision 2, for any person unless he is acting under the direction of a Licensed Professional Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and notation "altered by" followed by his signature and date of such alteration, and a specific description of the alteration.

LU ENGINEERS
Civil and Environmental

JOSEPH C. LU ENGINEERING AND LAND
2230 PENFIELD [illegible], NEW YORK 14526
PHONE: 585.377.1480 FAX: 585.377.1284

PROJECT:

FORMER
CHURCHVILLE FORD
REMEDIAL
INVESTIGATION

CLIENT:

OKAR EQUIPMENT
COMPANY, INC.

DRAWING TITLE:

FIG. 6
SOIL VAPOR
SAMPLE LOCATIONS

DESIGNED BY: LMS/JMB	SCALE: 1" = 30'
DRAWN BY: DLS	DATE: May 2006
CHECKED BY: GLA	PROJECT No. 3701-11
SHEET OF	DRAWING No.

Table 1

Former Churchville Ford Site
Soil Vapor Intrusion Sample Results
April 2007 and March 2010

DETECTED ANALYTES	OSHA PEL TWA (ug/m^3)	SVS[1]-JCL-01	IA[2]-JCL-01	SVS[1]-JCL-02	SVS[1]-JCL-02b	IA[2]-JCL-02	IA[2]-JCL-2b
Alcohol							
Isopropyl Alcohol	980,000	ND	ND	113	NS	23.5	NS
Halocarbons							
Bromomethane	80,000	ND	ND	0.434 J	ND	ND	ND
Carbon Tetrachloride	62,900	ND	ND	ND	ND	ND	ND
Chloroethane	2,600,000	ND	ND	0.376 J	ND	ND	ND
Chloroform	240,000	0.645 J	ND	0.39	ND	ND	ND
Chloromethane	207,000	ND	ND	ND	ND	0.651	ND
Cyclohexane	1,050,000	31.1	9.45	271	ND	137	ND
Dichlorodifloromethane	4,950,000	3.42	3.52	88.5	NS	5.08	NS
1,1-Dichloroethane	400,000	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	NA	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (cis-1,2-TCE)	NA	ND	ND	0.443 J	ND	ND	ND
trans-1,2-Dichloroethene(trans-1,2-TCE)	NA	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	7,600,000	0.779 J	0.779 J	ND	ND	ND	ND
Heptane (I)	2,000,000	37.9	30.8	390	NS	124	NS
Hexane	1,800,000	38.7	6.77	567	NS	58	NS
Methylene Chloride (I)	86,750	1.91	1.69	2.37	81.1	ND	90.4
Tetrachloroethene (PCE) (I)	678,000	3.31	1.7	86.9	97.3	12.1	285
1,1,1-Trichloroethane (TCA)	1,900,000	ND	ND	26.6	12.3	1.11	ND
1,1,2-Trichloroethane	45,000	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)(I)	537,000	0.765	0.546	16.4	ND	6.39	ND
Trichlorofluoromethane	5,600,000	1.83	2.17	1.43	ND	1.14	ND
2,2,4-trimethylpentane	NA	1.14	8.98	24.7	ND	29.4	ND
Vinyl Chloride	2,560	ND	ND	ND	ND	ND	ND
Aromatics							
Benzene (I)	3,190	8.44	3.73	77.3	29.3	27.3	23.3
1,4-Dichlorobenzene	450,000	ND	ND	ND	ND	0.978	ND
Ethylbenzene (I)	435,000	11.5	4.19	21.2	ND	23.8	23
4-ethyltoluene (I)	NA	6.85	3.55	4.75	NS	16	NS
Styrene	426,000	15.2	9.53	9.53	ND	2.44 J	ND
1,2,4-Trimethylbenzene (I)	NA	10.5	8.24	8.74	NS	42	NS
1,3,5-Trimethylbenzene (I)	NA	6.7	2.95	3.75	NS	11 J	NS
Toluene (I)	754,000	36.4	43.7	142	51.6	152	266
m,p-Xylene (I)	435,000	26	14.9	27.4	ND	77.7	85
o-Xylene (I)	435,000	8.56	5.16	10.6	ND	28.2	23.8
Keytones							
Acetone (I)	2,400,000	50.9	36.5	ND	289	213	172
2-Butanone (MEK) (I)	590,000	ND	ND	ND	ND	19.8	ND
4-Methyl-2-Pentanone	410,000	ND	ND	ND	ND	ND	ND
Miscellaneous							
Carbon Disulfide	62,200	2.69	ND	14.6	ND	0.57	ND
Methyl tert-butyl Ether (MTBE)	NA	ND	ND	ND	ND	0.696	ND

NS	Analyte not on parameter list for analysis
ND	Analyte not detected at or above the limit of quantitation
J	Estimated value, the result is > the method detection limit and < the quantitation limit
(I)	Chemical compound was found in a product logged during the building inventory (March 17,2010)
OSHA PEL TWA	OSHA Permissible Exposure Limit (PEL) based on an 8-hour time weighted average (TWA) exposure to the listed chemical compound. These PELs are generally applicable when compound is actively used at facility.
	Samples collected on March 17, 2010; analytical results are presented in ug/m^3
	Samples collected on April 4, 2007; analytical results are presented in ug/m^3

1:Sub-slab soil vapor sample
2:Indoor air sample
3:Outdoor air sample

Table 1

Former Churchville Ford Site
Soil Vapor Intrusion Sample Results
April 2007 and March 2010

DETECTED ANALYTES	OSHA PEL TWA (ug/m^3)	SVS[1]-JCL-03	SVS[1]-JCL-03b	IA[2]-JCL-03	IA[2]-JCL-03b	OA[3]-JCL-04	OA[3]-JCL-04b
Alcohol							
Isopropyl Alcohol	980,000	ND	NS	ND	NS	ND	NS
Halocarbons							
Bromomethane	80,000	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	62,900	ND	ND	ND	ND	ND	0.615
Chloroethane	2,600,000	43.7	592	ND	ND	ND	ND
Chloroform	240,000	1.29	ND	ND	ND	ND	ND
Chloromethane	207,000	ND	ND	ND	ND	ND	1.3
Cyclohexane	1,050,000	202	ND	88.2	ND	1.96	ND
Dichlorodifloromethane	4,950,000	1630	NS	5.48	NS	3.42	NS
1,1-Dichloroethane	400,000	75.3	208	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	NA	2.54	60.5	ND	ND	ND	ND
cis-1,2-Dichloroethene (cis-1,2-TCE)	NA	1570	18,500	ND	ND	ND	ND
trans-1,2-Dichloroethene(trans-1,2-TCE)	NA	ND	204	ND	ND	ND	2.9
1,1,2-Trichloro-1,2,2-trifluoroethane	7,600,000	ND	ND	ND	ND	ND	ND
Heptane (I)	2,000,000	371 J	NS	360	NS	8.29	NS
Hexane	1,800,000	360	NS	55.9	NS	ND	NS
Methylene Chloride (I)	86,750	2.54	83.1	2.93	67	1.09	9.86
Tetrachloroethene (PCE) (I)	678,000	31	313	11.9	236	ND	ND
1,1,1-Trichloroethane (TCA)	1,900,000	41	256	1.39	ND	ND	ND
1,1,2-Trichloroethane	45,000	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	537,000	45.3	305	6.39	ND	ND	ND
Trichlorofluoromethane	5,600,000	1.09	ND	1.83	ND	1.54	1.42
2,2,4-trimethylpentane	NA	15.2	ND	ND	ND	ND	ND
Vinyl Chloride	2,560	12	2,490	ND	ND	ND	ND
Aromatics							
Benzene (I)	3,190	49	77.8	26.3	53.6	0.422 J	0.833
1,4-Dichlorobenzene	450,000	ND	ND	1.04	ND	ND	ND
Ethylbenzene (I)	435,000	65.3	86.7	24.7	31.2	ND	ND
4-ethyltoluene (I)	NA	12.5	NS	15.5	NS	ND	NS
Styrene	426,000	10.8	ND	13	ND	ND	ND
1,2,4-Trimethylbenzene (I)	NA	21	NS	34.5	NS	ND	NS
1,3,5-Trimethylbenzene (I)	NA	8.74	NS	8.49	NS	ND	NS
Toluene (I)	754,000	323	137	386	343 J	3.6	1.79
m,p-Xylene (I)	435,000	189	112	85.6	122	ND	1.5
o-Xylene (I)	435,000	50.8	34.1	27.8	34.9	ND	0.533
Keytones							
Acetone (I)	2,400,000	1020	811 J	498	150	15.5	20.7 J
2-Butanone (MEK) (I)	590,000	ND	ND	ND	ND	ND	1.68
4-Methyl-2-Pentanone	410,000	ND	189	ND	ND	ND	ND
Miscellaneous							
Carbon Disulfide	62,200	2.44	ND	0.348 J	ND	ND	ND
Methyl tert-butyl Ether (MTBE)	NA	ND	ND	ND	ND	ND	ND

NS	Analyte not sampled
ND	Analyte not detected at or above the limit of quantitation
J	Estimated value, the result is > the method detection limit and < the quantitation limit
(I)	Chemical compound was found in a product logged during the building inventory (March 17,2010)
OSHA PEL TWA	OSHA Permissible Exposure Limit (PEL) based on an 8-hour time weighted average (TWA) exposure to the listed chemical compound. These PELs are generally applicable when compound is actively used at facility.
	Samples collected on March 17, 2010; analytical results are presented in ug/m^3
	Samples collected on April 4, 2007; analytical results are presented in ug/m^3

1:Sub-slab soil vapor sample
2:Indoor air sample
3:Outdoor air sample

Table 2

Former Churchville Ford Site

Soil Vapor Intrusion Sample Results

April 2007 and March 2010

DETECTED ANALYTES	OSHA PEL TWA (ug/m^3)	SVS[1]-JCL-01	IA[2]-JCL-01	SVS[1]-JCL-02	IA[2]-JCL-02	SVS[1]-JCL-02b	IA[2]-JCL-2b
Carbon Tetrachloride	62,900	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	537,000	0.765	0.546	16.4	6.39	ND	ND
Vinyl Chloride	2,560	ND	ND	ND	ND	ND	ND
Recommended Action[4] (Matrix 1)		Take reasonable and practical actions to identify source(s) and reduce exposures		Mitigate		No Further Action	
1,1-Dichloroethene (1,1-DCE)	NA	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (cis-1,2-TCE)	NA	ND	ND	0.443 J	ND	ND	ND
Tetrachloroethylene (PCE)	678,000	3.31	1.7	86.9	12.1	97.3	285
1,1,1-Trichloroethane (TCA)	1,900,000	ND	ND	26.6	1.11	12.3	ND
Recommended Action[5] (Matrix 2)		No further action		Take reasonable and practical actions to identify source(s) and reduce exposures		Take reasonable and practical actions to identify source(s) and reduce exposures	

DETECTED ANALYTES	OSHA PEL TWA (ug/m^3)	SVS[1]-JCL-03	IA[2]-JCL-03	SVS[1]-JCL-03b	IA[2]-JCL-03b	OA[3]-JCL-04	OA[3]-JCL-04b
Carbon Tetrachloride	62,900	ND	ND	ND	ND	ND	0.615
Trichloroethylene (TCE)	537,000	45.3	6.39	305	ND	ND	ND
Vinyl Chloride	2,560	12	ND	2,490	ND	ND	ND
Recommended Action[4] (Matrix 1)		Mitigate		Mitigate		--	--
1,1-Dichloroethene (1,1-DCE)	NA	2.54	ND	60.5	ND	ND	ND
cis-1,2-Dichloroethene (cis-1,2-TCE)	NA	1570	ND	18,500	ND	ND	ND
Tetrachloroethylene (PCE)	678,000	31	11.9	313	236	ND	ND
1,1,1-Trichloroethane (TCA)	1,900,000	41	1.39	256	ND	ND	ND
Recommended Action[5] (Matrix 2)		Take reasonable and practical actions to identify source(s) and reduce exposures		Mitigate		--	--

Matrix 1 and Matrix 2 are based on Final Guidance for Evaluationg Soil Vapor Intrusion in the State of New York, October 2006 (Final NYSDOH CEH BEEI Soil Vapor Intrusion Guidance)

ND	Analyte not detected at or above the limit of quantitation
J	Estimated value, the result is > the method detection limit and < the quantitation limit
OSHA PEL TWA	OSHA Permissible Exposure Limit (PEL) based on an 8-hour time weighted average (TWA) exposure to the listed chemical compound. These PELs are generally applicable only when the chemical is actively used at the facility.
	Sampled on March 17,2010; analytical results are presented in ug/m^3
	Sampled on April 4, 2007; analytical results are presented in ug/m^3

1:Sub-slab soil vapor sample
2:Indoor air sample
3:Outdoor air sample
4:Recomended action based on NYSDOH Soil Vapor/Indoor Air Matrix 1
5:Recomended action based on NYSDOH Soil vapor/Indoor Air Matrix 2

DATA USABILITY SUMMARY REPORT

FOR

Former Churchville Ford Air Data

SDG No. 10-1101

VOLATILES

Sampling Date: March 17, 2010

Submitted to:

Lu Engineers
2230 Penfield Road
Penfield, New York 14526
(888) 377-1450

For

New York State Department of Environmental Conservation
Albany, New York

Prepared by:
Environmental Data Validation Inc (EDV, Inc.,)
1326 Orangewood Ave
Pittsburgh, PA 15216
(412) 341-5281

Site: Former Churchville Ford SDG #: 10-1101

Client: Lu Engineers Date: August 17, 2010

Laboratory: Paradigm Environmental Services, Inc. Reviewer: D. McGuire

Client ID	Laboratory ID	Matrix	VOA
SVS-JCL-02b	4259	Air	X
IA-JCL-02b	4260	Air	X
IA-JCL-02b Dup	4261	Air	X
SVS-JCL-03b	4262	Air	X
IA-JCL-03b	4263	Air	X
OA-JCL-04b	4264	Air	X

The data package contained six (6) air samples. The samples were analyzed via Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air; Method TO-15, Second Edition, EPA/625/R-96/010b, January 1999. The adherence of laboratory analytical performance to this method's Analytical Specifications was evaluated during the data validation process. The data package was evaluated for its usability as defined by the Guidance for the Development of Data Usability Summary Reports (NYSDEC, 10/02). USEPA Region II checklist SOP# HW-31 rev 4 October 2006 was used as a guidance document. According to the NYSDEC Guidance for the Development of Data Usability Summary Reports, the following QC data were evaluated: blanks, instrument tunings, calibration standards, calibration verifications, replicate analyses, laboratory control and sample data. All QC data were within quality control limits, except the following issues:

Cover letter, Narrative and Data Reporting Forms (Form 1s): All criteria were met. The deficiencies noted in the case narrative have been discussed in applicable sections.

Chain of Custody (COC) and Traffic Report: All were present.

Holding Time: Holding time was within acceptable criterion.

Calibration Quality Control: Although methylene chloride calibration sample results were outside criteria; no data required qualification.

Blanks Quality Control: The following results were qualified due to blank contamination;

Sample ID	Analyte	Qualifier
4259	Acetone	289U
4259	Methylene Chloride	81.1 U
4260	Acetone	90.4U

Sample ID	Analyte	Qualifier
4260	Methylene Chloride	172U
4261	Acetone	184U
4261	Methylene Chloride	90.0U
4262	Methylene Chloride	83.1U
4263	Acetone	150U
4263	Methylene Chloride	67.0U
4264	Acetone	20.7U
4264	Methylene Chloride	9.86U

Laboratory Control Sample (LCS): Although several recoveries were outside the upper acceptance limits, no data required qualification.

Field Quality Control: Field QC samples were acceptable.

Additional Comments: The following results were estimated due to exceeding the calibration range;

Sample ID	Analyte	Qualifier
4259	4-Methyl-2-Pentanone	J
4261	Toluene	J
4262	Acetone, Chloroethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Vinyl Chloride	J
4263	Toluene	J

Data usability: Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "R" qualifier are not usable due to severe quality control issues. Data qualified with the "U" qualifier are usable as there are no quality control issues.

ATTACHMENT A

VALIDATED AND QUALIFIED DATA SHEETS (FORM 1s)

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: SVS-JCL-02b
Field ID Number: C-1009
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4259

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv		ug / m3	
Bromodichloromethane	ND< 1.90	U	ND< 12.6	U
Bromoform	ND< 1.90	U	ND< 19.4	U
Bromomethane	ND< 1.90	U	ND< 7.30	U
Carbon Tetrachloride	ND< 0.762	U	ND< 4.74	U
Chlorethane	ND< 3.81	U	ND< 9.97	U
Chloroform	ND< 1.90	U	ND< 9.17	U
Chloromethane	ND< 1.90	U	ND< 3.89	U
Dibromochloromethane	ND< 1.90	U	ND< 16.0	U
1,2 Dibromoethane	ND< 1.90	U	ND< 14.5	U
1,1-Dichloroethane	ND< 1.90	U	ND< 7.62	U
1,1-Dichloroethene	ND< 1.90	U	ND< 7.46	U
1,2-Dichloroethane	ND< 1.90	U	ND< 7.62	U
cis-1,2-Dichloroethene	ND< 1.90	U	ND< 7.46	U
trans-1,2-Dichloroethene	ND< 1.90	U	ND< 7.46	U
1,2-Dichloropropane	ND< 3.81	U	ND< 17.5	U
cis-1,3-Dichloropropene	ND< 1.90	U	ND< 8.55	U
trans-1,3-Dichloropropene	ND< 1.90	U	ND< 8.55	U
Methylene Chloride	23.6	U	81.1	U
1,1,2,2-Tetrachloroethane	ND< 1.90	U	ND< 12.9	U
Tetrachloroethene	14.5		97.3	
1,1,1-Trichloroethane	2.27		12.3	
1,1,2-Trichloroethane	ND< 1.90	U	ND< 10.3	U
Trichloroethene	ND< 0.895	U	ND< 4.76	U
Trichlorofluoromethane	ND< 1.90	U	ND< 10.6	U
Freon 113	ND< 1.90	U	ND< 14.5	U
Vinyl Chloride	ND< 1.90	U	ND< 4.82	U

Aromatics	PPBv		ug / m3	
Benzene	9.18		29.3	
Chlorobenzene	ND< 1.90	U	ND< 8.70	U
Ethylbenzene	ND< 1.90	U	ND< 8.24	U
Toluene	13.7		51.6	
m,p-Xylene	ND< 1.90	U	ND< 8.24	U
o-Xylene	ND< 1.90	U	ND< 8.24	U
Styrene	ND< 1.90	U	ND< 8.08	U
1,2-Dichlorobenzene	ND< 1.90	U	ND< 11.3	U
1,3-Dichlorobenzene	ND< 1.90	U	ND< 11.3	U
1,4-Dichlorobenzene	ND< 1.90	U	ND< 11.3	U

Ketones	PPBv		ug / m3	
Acetone	E 122	U	E 289	U
2-Butanone	ND< 9.52	U	ND< 28.0	U
2-Hexanone	ND< 9.52	U	ND< 38.9	U
4-Methyl-2-Pentanone	E 93.3	J	E 382	J

Miscellaneous	PPBv		ug / m3	
Carbon Disulfide	ND< 9.52	U	ND< 29.6	U
Methyl-tert-Butyl Ether	ND< 1.90	U	ND< 6.84	U
Vinyl Acetate	ND< 1.90	U	ND< 6.68	U

ELAP Number 10958 Method: EPA TO-15 Data File: A4582.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

DLM 8/16/10

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: IA-JCL-02b
Field ID Number: C-1020
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4260

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv		ug / m3	
Bromodichloromethane	ND< 1.90	U	ND< 12.6	U
Bromoform	ND< 1.90	U	ND< 19.4	U
Bromomethane	ND< 1.90	U	ND< 7.30	U
Carbon Tetrachloride	ND< 0.762	U	ND< 4.74	U
Chlorethane	ND< 3.81	U	ND< 9.97	U
Chloroform	ND< 1.90	U	ND< 9.17	U
Chloromethane	ND< 1.90	U	ND< 3.89	U
Dibromochloromethane	ND< 1.90	U	ND< 16.0	U
1,2 Dibromoethane	ND< 1.90	U	ND< 14.5	U
1,1-Dichloroethane	ND< 1.90	U	ND< 7.62	U
1,1-Dichloroethene	ND< 1.90	U	ND< 7.46	U
1,2-Dichloroethane	ND< 1.90	U	ND< 7.62	U
cis-1,2-Dichloroethene	ND< 1.90	U	ND< 7.46	U
trans-1,2-Dichloroethene	ND< 1.90	U	ND< 7.46	U
1,2-Dichloropropane	ND< 3.81	U	ND< 17.5	U
cis-1,3-Dichloropropene	ND< 1.90	U	ND< 8.55	U
trans-1,3-Dichloropropene	ND< 1.90	U	ND< 8.55	U
Methylene Chloride	26.3	U	90.4	U
1,1,2,2-Tetrachloroethane	ND< 1.90	U	ND< 12.9	U
Tetrachloroethene	42.5		285	
1,1,1-Trichloroethane	ND< 1.90	U	ND< 10.3	U
1,1,2-Trichloroethane	ND< 1.90	U	ND< 10.3	U
Trichloroethene	ND< 0.895	U	ND< 4.76	U
Trichlorofluoromethane	ND< 1.90	U	ND< 10.6	U
Freon 113	ND< 1.90	U	ND< 14.5	U
Vinyl Chloride	ND< 1.90	U	ND< 4.82	U

Aromatics	PPBv		ug / m3	
Benzene	7.30		23.3	
Chlorobenzene	ND< 1.90	U	ND< 8.70	U
Ethylbenzene	5.31		23.0	
Toluene	70.7		266	
m,p-Xylene	19.6		85.0	
o-Xylene	5.50		23.8	
Styrene	ND< 1.90	U	ND< 8.08	U
1,2-Dichlorobenzene	ND< 1.90	U	ND< 11.3	U
1,3-Dichlorobenzene	ND< 1.90	U	ND< 11.3	U
1,4-Dichlorobenzene	ND< 1.90	U	ND< 11.3	U

Ketones	PPBv		ug / m3	
Acetone	72.4	U	172	U
2-Butanone	ND< 9.52	U	ND< 28.0	U
2-Hexanone	ND< 9.52	U	ND< 38.9	U
4-Methyl-2-Pentanone	ND< 9.52	U	ND< 38.9	U

Miscellaneous	PPBv		ug / m3	
Carbon Disulfide	ND< 9.52	U	ND< 29.6	U
Methyl-tert-Butyl Ether	ND< 1.90	U	ND< 6.84	U
Vinyl Acetate	ND< 1.90	U	ND< 6.68	U

ELAP Number 10958 Method: EPA TO-15 Data File: A4583.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger, Technical Director

DLM 8/16/10

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

101101A3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: IA-JCL-02b Dup
Field ID Number: C-1015
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4261

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv		ug / m3	
Bromodichloromethane	ND< 2.00	U	ND< 13.3	U
Bromoform	ND< 2.00	U	ND< 20.4	U
Bromomethane	ND< 2.00	U	ND< 7.69	U
Carbon Tetrachloride	ND< 0.800	U	ND< 4.97	U
Chlorethane	ND< 4.00	U	ND< 10.5	U
Chloroform	ND< 2.00	U	ND< 9.65	U
Chloromethane	ND< 2.00	U	ND< 4.09	U
Dibromochloromethane	ND< 2.00	U	ND< 16.9	U
1,2 Dibromoethane	ND< 2.00	U	ND< 15.2	U
1,1-Dichloroethane	ND< 2.00	U	ND< 8.02	U
1,1-Dichloroethene	ND< 2.00	U	ND< 7.85	U
1,2-Dichloroethane	ND< 2.00	U	ND< 8.02	U
cis-1,2-Dichloroethene	ND< 2.00	U	ND< 7.85	U
trans-1,2-Dichloroethene	ND< 2.00	U	ND< 7.85	U
1,2-Dichloropropane	ND< 4.00	U	ND< 18.3	U
cis-1,3-Dichloropropene	ND< 2.00	U	ND< 9.00	U
trans-1,3-Dichloropropene	ND< 2.00	U	ND< 9.00	U
Methylene Chloride	26.2	U	90.0	U
1,1,2,2-Tetrachloroethane	ND< 2.00	U	ND< 13.6	U
Tetrachloroethene	51.0		342	
1,1,1-Trichloroethane	ND< 2.00	U	ND< 10.8	U
1,1,2-Trichloroethane	ND< 2.00	U	ND< 10.8	U
Trichloroethene	ND< 0.940	U	ND< 5.00	U
Trichlorofluoromethane	ND< 2.00	U	ND< 11.1	U
Freon 113	ND< 2.00	U	ND< 15.2	U
Vinyl Chloride	ND< 2.00	U	ND< 5.07	U

Aromatics	PPBv		ug / m3	
Benzene	6.76		21.6	
Chlorobenzene	ND< 2.00	U	ND< 9.16	U
Ethylbenzene	5.76		25.0	
Toluene	E 90.4	J	E 340	J
m,p-Xylene	21.8		94.5	
o-Xylene	6.32		27.4	
Styrene	ND< 2.00	U	ND< 8.51	U
1,2-Dichlorobenzene	ND< 2.00	U	ND< 11.9	U
1,3-Dichlorobenzene	ND< 2.00	U	ND< 11.9	U
1,4-Dichlorobenzene	ND< 2.00	U	ND< 11.9	U

Ketones	PPBv		ug / m3	
Acetone	77.4	U	184	U
2-Butanone	ND< 10.0	U	ND< 29.4	U
2-Hexanone	ND< 10.0	U	ND< 40.9	U
4-Methyl-2-Pentanone	ND< 10.0	U	ND< 40.9	U

Miscellaneous	PPBv		ug / m3	
Carbon Disulfide	ND< 10.0	U	ND< 31.1	U
Methyl-tert-Butyl Ether	ND< 2.00	U	ND< 7.20	U
Vinyl Acetate	ND< 2.00	U	ND< 7.03	U

ELAP Number 10958 Method: EPA TO-15 Data File: A4584.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

DLH 8/16/10

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: SVS-JCL-03b
Field ID Number: C-1001
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4262

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 2.00 U	ND< 13.3 U
Bromoform	ND< 2.00 U	ND< 20.4 U
Bromomethane	ND< 2.00 U	ND< 7.69 U
Carbon Tetrachloride	ND< 0.800 U	ND< 4.97 U
Chlorethane	E 226 J	592 J
Chloroform	ND< 2.00 U	ND< 9.65 U
Chloromethane	ND< 2.00 U	ND< 4.09 U
Dibromochloromethane	ND< 2.00 U	ND< 16.9 U
1,2 Dibromoethane	ND< 2.00 U	ND< 15.2 U
1,1-Dichloroethane	51.8	208
1,1-Dichloroethene	15.4	60.5
1,2-Dichloroethane	ND< 2.00 U	ND< 8.02 U
cis-1,2-Dichloroethene	E 4,700 J	18,500 J
trans-1,2-Dichloroethene	E 52.0 J	204 J
1,2-Dichloropropane	ND< 4.00 U	ND< 18.3 U
cis-1,3-Dichloropropene	ND< 2.00 U	ND< 9.00 U
trans-1,3-Dichloropropene	ND< 2.00 U	ND< 9.00 U
Methylene Chloride	24.2 U	83.1 U
1,1,2,2-Tetrachloroethane	ND< 2.00 U	ND< 13.6 U
Tetrachloroethene	46.6	313
1,1,1-Trichloroethane	47.4	256
1,1,2-Trichloroethane	ND< 2.00 U	ND< 10.8 U
Trichloroethene	57.4	305
Trichlorofluoromethane	ND< 2.00 U	ND< 11.1 U
Freon 113	ND< 2.00 U	ND< 15.2 U
Vinyl Chloride	E 982 J	2,490 J

Aromatics	PPBv	ug / m3
Benzene	24.4	77.8
Chlorobenzene	ND< 2.00 U	ND< 9.16 U
Ethylbenzene	20.0	86.7
Toluene	36.4	137
m,p-Xylene	25.8	112
o-Xylene	7.86	34.1
Styrene	ND< 2.00 U	ND< 8.51 U
1,2-Dichlorobenzene	ND< 2.00 U	ND< 11.9 U
1,3-Dichlorobenzene	ND< 2.00 U	ND< 11.9 U
1,4-Dichlorobenzene	ND< 2.00 U	ND< 11.9 U

Ketones	PPBv	ug / m3
Acetone	E 342 J	E 811 J
2-Butanone	ND< 10.0 U	ND< 29.4 U
2-Hexanone	ND< 10.0 U	ND< 40.9 U
4-Methyl-2-Pentanone	46.2	189

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 10.0 U	ND< 31.1 U
Methyl-tert-Butyl Ether	ND< 2.00 U	ND< 7.20 U
Vinyl Acetate	ND< 2.00 U	ND< 7.03 U

ELAP Number 10958 Method: EPA TO-15 Data File: A4584.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: IA-JCL-03b
Field ID Number: C-1019
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4263

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 2.00 U	ND< 13.3 U
Bromoform	ND< 2.00 U	ND< 20.4 U
Bromomethane	ND< 2.00 U	ND< 7.69 U
Carbon Tetrachloride	ND< 0.800 U	ND< 4.97 U
Chlorethane	ND< 4.00 U	ND< 10.5 U
Chloroform	ND< 2.00 U	ND< 9.65 U
Chloromethane	ND< 2.00 U	ND< 4.09 U
Dibromochloromethane	ND< 2.00 U	ND< 16.9 U
1,2 Dibromoethane	ND< 2.00 U	ND< 15.2 U
1,1-Dichloroethane	ND< 2.00 U	ND< 8.02 U
1,1-Dichloroethene	ND< 2.00 U	ND< 7.85 U
1,2-Dichloroethane	ND< 2.00 U	ND< 8.02 U
cis-1,2-Dichloroethene	ND< 2.00 U	ND< 7.85 U
trans-1,2-Dichloroethene	ND< 2.00 U	ND< 7.85 U
1,2-Dichloropropane	ND< 4.00 U	ND< 18.3 U
cis-1,3-Dichloropropene	ND< 2.00 U	ND< 9.00 U
trans-1,3-Dichloropropene	ND< 2.00 U	ND< 9.00 U
Methylene Chloride	19.5 U	67.0 U
1,1,2,2-Tetrachloroethane	ND< 2.00 U	ND< 13.6 U
Tetrachloroethene	35.2	236
1,1,1-Trichloroethane	ND< 2.00 U	ND< 10.8 U
1,1,2-Trichloroethane	ND< 2.00 U	ND< 10.8 U
Trichloroethene	ND< 0.940 U	ND< 5.00 U
Trichlorofluoromethane	ND< 2.00 U	ND< 11.1 U
Freon 113	ND< 2.00 U	ND< 15.2 U
Vinyl Chloride	ND< 2.00 U	ND< 5.07 U

Aromatics	PPBv	ug / m3
Benzene	16.8	53.6
Chlorobenzene	ND< 2.00 U	ND< 9.16 U
Ethylbenzene	7.20	31.2
Toluene	E 91.2 J	E 343 J
m,p-Xylene	28.2	122
o-Xylene	8.04	34.9
Styrene	ND< 2.00 U	ND< 8.51 U
1,2-Dichlorobenzene	ND< 2.00 U	ND< 11.9 U
1,3-Dichlorobenzene	ND< 2.00 U	ND< 11.9 U
1,4-Dichlorobenzene	ND< 2.00 U	ND< 11.9 U

Ketones	PPBv	ug / m3
Acetone	63.2 U	150 U
2-Butanone	ND< 10.0 U	ND< 29.4 U
2-Hexanone	ND< 10.0 U	ND< 40.9 U
4-Methyl-2-Pentanone	ND< 10.0 U	ND< 40.9 U

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 10.0 U	ND< 31.1 U
Methyl-tert-Butyl Ether	ND< 2.00 U	ND< 7.20 U
Vinyl Acetate	ND< 2.00 U	ND< 7.03 U

ELAP Number 10958 Method: EPA TO-15 Data File: A4586.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

DRM 8/14/10

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: OA-JCL-04b
Field ID Number: C-1010
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4264

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/28/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.100 U	ND< 0.663 U
Bromoform	ND< 0.100 U	ND< 1.02 U
Bromomethane	ND< 0.100 U	ND< 0.384 U
Carbon Tetrachloride	0.0989	0.615
Chlorethane	ND< 0.200 U	ND< 0.524 U
Chloroform	ND< 0.100 U	ND< 0.483 U
Chloromethane	0.638	1.30
Dibromochloromethane	ND< 0.100 U	ND< 0.843 U
1,2 Dibromoethane	ND< 0.100 U	ND< 0.761 U
1,1-Dichloroethane	ND< 0.100 U	ND< 0.401 U
1,1-Dichloroethene	ND< 0.100 U	ND< 0.393 U
1,2-Dichloroethane	ND< 0.100 U	ND< 0.401 U
cis-1,2-Dichloroethene	ND< 0.100 U	ND< 0.393 U
trans-1,2-Dichloroethene	ND< 0.100 U	ND< 0.393 U
1,2-Dichloropropane	ND< 0.200 U	ND< 0.916 U
cis-1,3-Dichloropropene	ND< 0.100 U	ND< 0.450 U
trans-1,3-Dichloropropene	0.645	2.90
Methylene Chloride	2.87 U	9.86 U
1,1,2,2-Tetrachloroethane	ND< 0.100 U	ND< 0.679 U
Tetrachloroethene	ND< 0.100 U	ND< 0.671 U
1,1,1-Trichloroethane	ND< 0.100 U	ND< 0.540 U
1,1,2-Trichloroethane	ND< 0.100 U	ND< 0.540 U
Trichloroethene	ND< 0.0470 U	ND< 0.250 U
Trichlorofluoromethane	0.255	1.42
Freon 113	ND< 0.100 U	ND< 0.761 U
Vinyl Chloride	ND< 0.100 U	ND< 0.254 U

Aromatics	PPBv	ug / m3
Benzene	0.261	0.833
Chlorobenzene	ND< 0.100 U	ND< 0.458 U
Ethylbenzene	ND< 0.100 U	ND< 0.434 U
Toluene	0.477	1.79
m,p-Xylene	0.347	1.50
o-Xylene	0.123	0.533
Styrene	ND< 0.100 U	ND< 0.425 U
1,2-Dichlorobenzene	ND< 0.100 U	ND< 0.597 U
1,3-Dichlorobenzene	ND< 0.100 U	ND< 0.597 U
1,4-Dichlorobenzene	ND< 0.100 U	ND< 0.597 U

Ketones	PPBv	ug / m3
Acetone	E 8.71 U	E 20.7 U
2-Butanone	0.570	1.68
2-Hexanone	ND< 0.500 U	ND< 2.04 U
4-Methyl-2-Pentanone	ND< 0.500 U	ND< 2.04 U

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.500 U	ND< 1.55 U
Methyl-tert-Butyl Ether	ND< 0.100 U	ND< 0.360 U
Vinyl Acetate	ND< 0.100 U	ND< 0.352 U

ELAP Number 10958 Method: EPA TO-15 Data File: A4573.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature:
Bruce Hoogesteger: Technical Director

DLM 8/16/10

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

101101A8.XLS

ATTACHMENT B

CASE NARRATIVE AND CHAIN OF CUSTODY

PARADIGM
ENVIRONMENTAL SERVICES, INC.
WWW.PARADIGMENV.COM
179 Lake Avenue, Rochester, NY 14608 PHONE: 585-647-2530 TOLL FREE: 800-724-1997 FAX: 585-647-3311

LAB PROJECT NARRATIVE

CLIENT: Lu Engineers
PROJECT NAME: Former Churchville Ford
LAB PROJECT: 10-1101
DATE: April 2, 2010

Six one liter canister samples were collected by Lu field staff on 3/17/2010 and received at the Paradigm laboratory on 3/19/2010. The samples were submitted for volatiles analysis by EPA Method TO-15. The results of analysis are attached, along with the supporting raw data.

The majority of samples were sufficiently contaminated to require running at a dilution. Even at the maximum dilution (20 fold), some analytes remained above the calibration range, and are reported with an "E" qualifier indicating estimated values. The sample "OA-JCL-04b" contained only lower level concentrations, and was run without dilution. The method blanks and canister cleaning blanks contained low levels of acetone and methylene chloride. Sample results for these two analytes are flagged with a "B". All samples were within method limits for Internal Standard Areas. The batch QC LCS was out slightly high for the IS chlorobenzene-d5. Sample data is not affected. No other QC or data qualifications apply to this data set.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

TO-15 CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Lu Engineers	COMPANY:	SAME
ADDRESS:	2230 Penfield Rd.	ADDRESS:	
CITY:	Penfield	STATE: NY	ZIP: 14526
PHONE:	377-1450	FAX: 377-1266	
ATTN:	Eric Detweiler	ATTN:	
COMMENTS:	DUSR Ready Package needed.		

LAB PROJECT #: 10-1101
CLIENT PROJECT #: 5701-11
PROJECT NAME/SITE NAME: Former Churchville Ford
TURNAROUND TIME: (WORKING DAYS) STD OTHER
☐ 3 ☐ 5 ☒ 7 ☐
Quotation #

Sampling Procedure

DATE	SAMPLE LOCATION/FIELD ID	MATRIX	CANISTER	REGULATOR	START VACUUM in Hg	START TIME	END TIME	END DATE	END VACUUM in Hg	ANALYSIS: TCL	ANALYSIS: Halo	ANALYSIS: Site Specific	RETURN VACUUM	PARADIGM LAB SAMPLE NUMBER
3/17/10	SVS-JCL-02b	AIR	C 1009	R 5208	-28" Hg	9:21	5:15	3/17/10	-8	X			10	42595
3/17/10	IA-JCL-02b	AIR	C 1020	R 5097	-27	9:22	5:15	3/17/10	-5	X			8	42600
3/17/10	IA-JCL-02b Dup.	AIR	C 1015	R 5038	-28	9:24	5:16	3/17/10	-10	X			11	42601
3/17/10	SVS-JCL-03b	AIR	C 1001	R 5087	-27.5	9:53	5:23	3/17/10	-10	X			12	42602
3/17/10	IA-JCL-03b	AIR	C 1019	R 5014	-28.5	9:54	5:23	3/17/10	-4	X			5	42603
3/17/10	OA-JCL-04b	AIR	C 1010	R 5044	-30	9:57	5:32	3/17/10	-9	X			10	42604
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										

Remarks:

* 1 ug/m³ w/ 0.25 ug/m³ CT & TCE by TO-15 w/ CAT B Reporting

* Possible TCE contamination in subslab

****LAB USE ONLY BELOW THIS LINE****

Eric Detweiler/Christina Karas 3/17/10
Sampled By — Date/Time

Relinquished By — 3/19/10 8:00
Date/Time

Received By — 3/19/10 8:16
Date/Time

Elizabeth A. Honch 3/19/10 1445
Received @ Lab By — Date/Time

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

TO-15 EQUIPMENT CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:
COMPANY: Lu Engineers	COMPANY: Lu Engineers
ADDRESS: 2230 Penfield Rd.	ADDRESS: 2230 Penfield Rd.
CITY: Penfield STATE: NY ZIP: 14526	CITY: Penfield STATE: NY ZIP: 14526
PHONE: (585) 377-1450 FAX: 377-1266	PHONE: (585) 377-1450 FAX:
ATTN: Eric Detweiler	ATTN: Eric Detweiler
COMMENTS:	

LAB PROJECT #: 10-1101
CLIENT PROJECT #: 5701-11

TURNAROUND TIME: (WORKING DAYS)
STD OTHER
☐ 3 ☐ 5 ☒ 7 ☐

Quotation #

PROJECT NAME/SITE NAME: Former Churchville Ford

Equipment Tracking

CANISTER	SHIPPED VACUUM	CANISTER	SHIPPED VACUUM	CANISTER	SHIPPED VACUUM
C 1019	30	C		C	
C 1016	30	C		C	
C 1001	30	C		C	
C 1015	30	C		C	
C 1009	30	C		C	
C 1020	30	C		C	
C		C		C	
C		C		C	
C		C		C	
C		C		C	

Equipment Tracking

REGULATOR	FLOW	REGULATOR	FLOW	REGULATOR	FLOW
R 5080	1.4	R		R	
R 5220		R		R	
R 5033		R		R	
R 5094		R		R	
R 5047		R		R	
R 5011		R		R	
R		R		R	
R		R		R	
R		R		R	
R		R		R	

1 guage

3 ambient tips

Remarks: All equipment recd in good condition, 3/19.
EAH 3/19

****LAB USE ONLY BELOW THIS LINE****

Client
Picked up By — Date/Time

Returned By — Date/Time

Received By — Date/Time

Elizabeth A. Honch 3/19/10 1445
Received @ Lab By — Date/Time

Total Cost:

P.I.F.

Lab Project Number : 10-1101

Client: Lu Engineers

Project Name: Former Churchville Ford

Analysis Parameters: EPA TO-15

Report of Analysis
&
QC Deliverables

REPORT PREPARED BY
Paradigm Environmental Services, Inc.
179 Lake Avenue, Rochester, New York 14608

Lab Project Narrative

PARADIGM
ENVIRONMENTAL SERVICES, INC.
WWW.PARADIGMENV.COM
179 Lake Avenue, Rochester, NY 14608 PHONE: 585-647-2530 TOLL FREE: 800-724-1997 FAX: 585-647-3311

LAB PROJECT NARRATIVE

CLIENT: Lu Engineers
PROJECT NAME: Former Churchville Ford
LAB PROJECT: 10-1101
DATE: April 2, 2010

Six one liter canister samples were collected by Lu field staff on 3/17/2010 and received at the Paradigm laboratory on 3/19/2010. The samples were submitted for volatiles analysis by EPA Method TO-15. The results of analysis are attached, along with the supporting raw data.

The majority of samples were sufficiently contaminated to require running at a dilution. Even at the maximum dilution (20 fold), some analytes remained above the calibration range, and are reported with an "E" qualifier indicating estimated values. The sample "OA-JCL-04b" contained only lower level concentrations, and was run without dilution. The method blanks and canister cleaning blanks contained low levels of acetone and methylene chloride. Sample results for these two analytes are flagged with a "B". All samples were within method limits for Internal Standard Areas. The batch QC LCS was out slightly high for the IS chlorobenzene-d5. Sample data is not affected. No other QC or data qualifications apply to this data set.

Summary Data

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: SVS-JCL-02b
Field ID Number: C-1009
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4259

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 1.90	ND< 12.6
Bromoform	ND< 1.90	ND< 19.4
Bromomethane	ND< 1.90	ND< 7.30
Carbon Tetrachloride	ND< 0.762	ND< 4.74
Chlorethane	ND< 3.81	ND< 9.97
Chloroform	ND< 1.90	ND< 9.17
Chloromethane	ND< 1.90	ND< 3.89
Dibromochloromethane	ND< 1.90	ND< 16.0
1,2 Dibromoethane	ND< 1.90	ND< 14.5
1,1-Dichloroethane	ND< 1.90	ND< 7.62
1,1-Dichloroethene	ND< 1.90	ND< 7.46
1,2-Dichloroethane	ND< 1.90	ND< 7.62
cis-1,2-Dichloroethene	ND< 1.90	ND< 7.46
trans-1,2-Dichloroethene	ND< 1.90	ND< 7.46
1,2-Dichloropropane	ND< 3.81	ND< 17.5
cis-1,3-Dichloropropene	ND< 1.90	ND< 8.55
trans-1,3-Dichloropropene	ND< 1.90	ND< 8.55
Methylene Chloride	23.6	81.1
1,1,2,2-Tetrachloroethane	ND< 1.90	ND< 12.9
Tetrachloroethene	14.5	97.3
1,1,1-Trichloroethane	2.27	12.3
1,1,2-Trichloroethane	ND< 1.90	ND< 10.3
Trichloroethene	ND< 0.895	ND< 4.76
Trichlorofluoromethane	ND< 1.90	ND< 10.6
Freon 113	ND< 1.90	ND< 14.5
Vinyl Chloride	ND< 1.90	ND< 4.82

Aromatics	PPBv	ug / m3
Benzene	9.18	29.3
Chlorobenzene	ND< 1.90	ND< 8.70
Ethylbenzene	ND< 1.90	ND< 8.24
Toluene	13.7	51.6
m,p-Xylene	ND< 1.90	ND< 8.24
o-Xylene	ND< 1.90	ND< 8.24
Styrene	ND< 1.90	ND< 8.08
1,2-Dichlorobenzene	ND< 1.90	ND< 11.3
1,3-Dichlorobenzene	ND< 1.90	ND< 11.3
1,4-Dichlorobenzene	ND< 1.90	ND< 11.3

Ketones	PPBv	ug / m3
Acetone	E 122	E 289
2-Butanone	ND< 9.52	ND< 28.0
2-Hexanone	ND< 9.52	ND< 38.9
4-Methyl-2-Pentanone	E 93.3	E 382

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 9.52	ND< 29.6
Methyl-tert-Butyl Ether	ND< 1.90	ND< 6.84
Vinyl Acetate	ND< 1.90	ND< 6.68

ELAP Number 10958 Method: EPA TO-15 Data File: A4582.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: IA-JCL-02b
Field ID Number: C-1020
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4260

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 1.90	ND< 12.6
Bromoform	ND< 1.90	ND< 19.4
Bromomethane	ND< 1.90	ND< 7.30
Carbon Tetrachloride	ND< 0.762	ND< 4.74
Chlorethane	ND< 3.81	ND< 9.97
Chloroform	ND< 1.90	ND< 9.17
Chloromethane	ND< 1.90	ND< 3.89
Dibromochloromethane	ND< 1.90	ND< 16.0
1,2 Dibromoethane	ND< 1.90	ND< 14.5
1,1-Dichloroethane	ND< 1.90	ND< 7.62
1,1-Dichloroethene	ND< 1.90	ND< 7.46
1,2-Dichloroethane	ND< 1.90	ND< 7.62
cis-1,2-Dichloroethene	ND< 1.90	ND< 7.46
trans-1,2-Dichloroethene	ND< 1.90	ND< 7.46
1,2-Dichloropropane	ND< 3.81	ND< 17.5
cis-1,3-Dichloropropene	ND< 1.90	ND< 8.55
trans-1,3-Dichloropropene	ND< 1.90	ND< 8.55
Methylene Chloride	26.3	90.4
1,1,2,2-Tetrachloroethane	ND< 1.90	ND< 12.9
Tetrachloroethene	42.5	285
1,1,1-Trichloroethane	ND< 1.90	ND< 10.3
1,1,2-Trichloroethane	ND< 1.90	ND< 10.3
Trichloroethene	ND< 0.895	ND< 4.76
Trichlorofluoromethane	ND< 1.90	ND< 10.6
Freon 113	ND< 1.90	ND< 14.5
Vinyl Chloride	ND< 1.90	ND< 4.82

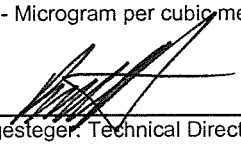
Aromatics	PPBv	ug / m3
Benzene	7.30	23.3
Chlorobenzene	ND< 1.90	ND< 8.70
Ethylbenzene	5.31	23.0
Toluene	70.7	266
m,p-Xylene	19.6	85.0
o-Xylene	5.50	23.8
Styrene	ND< 1.90	ND< 8.08
1,2-Dichlorobenzene	ND< 1.90	ND< 11.3
1,3-Dichlorobenzene	ND< 1.90	ND< 11.3
1,4-Dichlorobenzene	ND< 1.90	ND< 11.3

Ketones	PPBv	ug / m3
Acetone	72.4	172
2-Butanone	ND< 9.52	ND< 28.0
2-Hexanone	ND< 9.52	ND< 38.9
4-Methyl-2-Pentanone	ND< 9.52	ND< 38.9

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 9.52	ND< 29.6
Methyl-tert-Butyl Ether	ND< 1.90	ND< 6.84
Vinyl Acetate	ND< 1.90	ND< 6.68

ELAP Number 10958 Method: EPA TO-15 Data File: A4583.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: 
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: IA-JCL-02b Dup
Field ID Number: C-1015
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4261

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 2.00	ND< 13.3
Bromoform	ND< 2.00	ND< 20.4
Bromomethane	ND< 2.00	ND< 7.69
Carbon Tetrachloride	ND< 0.800	ND< 4.97
Chlorethane	ND< 4.00	ND< 10.5
Chloroform	ND< 2.00	ND< 9.65
Chloromethane	ND< 2.00	ND< 4.09
Dibromochloromethane	ND< 2.00	ND< 16.9
1,2 Dibromoethane	ND< 2.00	ND< 15.2
1,1-Dichloroethane	ND< 2.00	ND< 8.02
1,1-Dichloroethene	ND< 2.00	ND< 7.85
1,2-Dichloroethane	ND< 2.00	ND< 8.02
cis-1,2-Dichloroethene	ND< 2.00	ND< 7.85
trans-1,2-Dichloroethene	ND< 2.00	ND< 7.85
1,2-Dichloropropane	ND< 4.00	ND< 18.3
cis-1,3-Dichloropropene	ND< 2.00	ND< 9.00
trans-1,3-Dichloropropene	ND< 2.00	ND< 9.00
Methylene Chloride	26.2	90.0
1,1,2,2-Tetrachloroethane	ND< 2.00	ND< 13.6
Tetrachloroethene	51.0	342
1,1,1-Trichloroethane	ND< 2.00	ND< 10.8
1,1,2-Trichloroethane	ND< 2.00	ND< 10.8
Trichloroethene	ND< 0.940	ND< 5.00
Trichlorofluoromethane	ND< 2.00	ND< 11.1
Freon 113	ND< 2.00	ND< 15.2
Vinyl Chloride	ND< 2.00	ND< 5.07

Aromatics	PPBv	ug / m3
Benzene	6.76	21.6
Chlorobenzene	ND< 2.00	ND< 9.16
Ethylbenzene	5.76	25.0
Toluene	E 90.4	E 340
m,p-Xylene	21.8	94.5
o-Xylene	6.32	27.4
Styrene	ND< 2.00	ND< 8.51
1,2-Dichlorobenzene	ND< 2.00	ND< 11.9
1,3-Dichlorobenzene	ND< 2.00	ND< 11.9
1,4-Dichlorobenzene	ND< 2.00	ND< 11.9

Ketones	PPBv	ug / m3
Acetone	77.4	184
2-Butanone	ND< 10.0	ND< 29.4
2-Hexanone	ND< 10.0	ND< 40.9
4-Methyl-2-Pentanone	ND< 10.0	ND< 40.9

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 10.0	ND< 31.1
Methyl-tert-Butyl Ether	ND< 2.00	ND< 7.20
Vinyl Acetate	ND< 2.00	ND< 7.03

ELAP Number 10958 Method: EPA TO-15 Data File: A4584.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: SVS-JCL-03b
Field ID Number: C-1001
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4262

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 2.00	ND< 13.3
Bromoform	ND< 2.00	ND< 20.4
Bromomethane	ND< 2.00	ND< 7.69
Carbon Tetrachloride	ND< 0.800	ND< 4.97
Chlorethane	E 226	592
Chloroform	ND< 2.00	ND< 9.65
Chloromethane	ND< 2.00	ND< 4.09
Dibromochloromethane	ND< 2.00	ND< 16.9
1,2 Dibromoethane	ND< 2.00	ND< 15.2
1,1-Dichloroethane	51.8	208
1,1-Dichloroethene	15.4	60.5
1,2-Dichloroethane	ND< 2.00	ND< 8.02
cis-1,2-Dichloroethene	E 4,700	18,500
trans-1,2-Dichloroethene	E 52.0	204
1,2-Dichloropropane	ND< 4.00	ND< 18.3
cis-1,3-Dichloropropene	ND< 2.00	ND< 9.00
trans-1,3-Dichloropropene	ND< 2.00	ND< 9.00
Methylene Chloride	24.2	83.1
1,1,2,2-Tetrachloroethane	ND< 2.00	ND< 13.6
Tetrachloroethene	46.6	313
1,1,1-Trichloroethane	47.4	256
1,1,2-Trichloroethane	ND< 2.00	ND< 10.8
Trichloroethene	57.4	305
Trichlorofluoromethane	ND< 2.00	ND< 11.1
Freon 113	ND< 2.00	ND< 15.2
Vinyl Chloride	E 982	2,490

Aromatics	PPBv	ug / m3
Benzene	24.4	77.8
Chlorobenzene	ND< 2.00	ND< 9.16
Ethylbenzene	20.0	86.7
Toluene	36.4	137
m,p-Xylene	25.8	112
o-Xylene	7.86	34.1
Styrene	ND< 2.00	ND< 8.51
1,2-Dichlorobenzene	ND< 2.00	ND< 11.9
1,3-Dichlorobenzene	ND< 2.00	ND< 11.9
1,4-Dichlorobenzene	ND< 2.00	ND< 11.9

Ketones	PPBv	ug / m3
Acetone	E 342	E 811
2-Butanone	ND< 10.0	ND< 29.4
2-Hexanone	ND< 10.0	ND< 40.9
4-Methyl-2-Pentanone	46.2	189

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 10.0	ND< 31.1
Methyl-tert-Butyl Ether	ND< 2.00	ND< 7.20
Vinyl Acetate	ND< 2.00	ND< 7.03

ELAP Number 10958 Method: EPA TO-15 Data File: A4584.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: IA-JCL-03b
Field ID Number: C-1019
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4263
Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 2.00	ND< 13.3
Bromoform	ND< 2.00	ND< 20.4
Bromomethane	ND< 2.00	ND< 7.69
Carbon Tetrachloride	ND< 0.800	ND< 4.97
Chlorethane	ND< 4.00	ND< 10.5
Chloroform	ND< 2.00	ND< 9.65
Chloromethane	ND< 2.00	ND< 4.09
Dibromochloromethane	ND< 2.00	ND< 16.9
1,2 Dibromoethane	ND< 2.00	ND< 15.2
1,1-Dichloroethane	ND< 2.00	ND< 8.02
1,1-Dichloroethene	ND< 2.00	ND< 7.85
1,2-Dichloroethane	ND< 2.00	ND< 8.02
cis-1,2-Dichloroethene	ND< 2.00	ND< 7.85
trans-1,2-Dichloroethene	ND< 2.00	ND< 7.85
1,2-Dichloropropane	ND< 4.00	ND< 18.3
cis-1,3-Dichloropropene	ND< 2.00	ND< 9.00
trans-1,3-Dichloropropene	ND< 2.00	ND< 9.00
Methylene Chloride	19.5	67.0
1,1,2,2-Tetrachloroethane	ND< 2.00	ND< 13.6
Tetrachloroethene	35.2	236
1,1,1-Trichloroethane	ND< 2.00	ND< 10.8
1,1,2-Trichloroethane	ND< 2.00	ND< 10.8
Trichloroethene	ND< 0.940	ND< 5.00
Trichlorofluoromethane	ND< 2.00	ND< 11.1
Freon 113	ND< 2.00	ND< 15.2
Vinyl Chloride	ND< 2.00	ND< 5.07

Aromatics	PPBv	ug / m3
Benzene	16.8	53.6
Chlorobenzene	ND< 2.00	ND< 9.16
Ethylbenzene	7.20	31.2
Toluene	E 91.2	E 343
m,p-Xylene	28.2	122
o-Xylene	8.04	34.9
Styrene	ND< 2.00	ND< 8.51
1,2-Dichlorobenzene	ND< 2.00	ND< 11.9
1,3-Dichlorobenzene	ND< 2.00	ND< 11.9
1,4-Dichlorobenzene	ND< 2.00	ND< 11.9

Ketones	PPBv	ug / m3
Acetone	63.2	150
2-Butanone	ND< 10.0	ND< 29.4
2-Hexanone	ND< 10.0	ND< 40.9
4-Methyl-2-Pentanone	ND< 10.0	ND< 40.9

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 10.0	ND< 31.1
Methyl-tert-Butyl Ether	ND< 2.00	ND< 7.20
Vinyl Acetate	ND< 2.00	ND< 7.03

ELAP Number 10958 Method: EPA TO-15 Data File: A4586.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: OA-JCL-04b
Field ID Number: C-1010
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: 4264

Date Sampled: 03/17/2010
Date Received: 03/19/2010
Date Analyzed: 03/28/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.100	ND< 0.663
Bromoform	ND< 0.100	ND< 1.02
Bromomethane	ND< 0.100	ND< 0.384
Carbon Tetrachloride	0.0989	0.615
Chlorethane	ND< 0.200	ND< 0.524
Chloroform	ND< 0.100	ND< 0.483
Chloromethane	0.638	1.30
Dibromochloromethane	ND< 0.100	ND< 0.843
1,2 Dibromoethane	ND< 0.100	ND< 0.761
1,1-Dichloroethane	ND< 0.100	ND< 0.401
1,1-Dichloroethene	ND< 0.100	ND< 0.393
1,2-Dichloroethane	ND< 0.100	ND< 0.401
cis-1,2-Dichloroethene	ND< 0.100	ND< 0.393
trans-1,2-Dichloroethene	ND< 0.100	ND< 0.393
1,2-Dichloropropane	ND< 0.200	ND< 0.916
cis-1,3-Dichloropropene	ND< 0.100	ND< 0.450
trans-1,3-Dichloropropene	0.645	2.90
Methylene Chloride	2.87	9.86
1,1,2,2-Tetrachloroethane	ND< 0.100	ND< 0.679
Tetrachloroethene	ND< 0.100	ND< 0.671
1,1,1-Trichloroethane	ND< 0.100	ND< 0.540
1,1,2-Trichloroethane	ND< 0.100	ND< 0.540
Trichloroethene	ND< 0.0470	ND< 0.250
Trichlorofluoromethane	0.255	1.42
Freon 113	ND< 0.100	ND< 0.761
Vinyl Chloride	ND< 0.100	ND< 0.254

Aromatics	PPBv	ug / m3
Benzene	0.261	0.833
Chlorobenzene	ND< 0.100	ND< 0.458
Ethylbenzene	ND< 0.100	ND< 0.434
Toluene	0.477	1.79
m,p-Xylene	0.347	1.50
o-Xylene	0.123	0.533
Styrene	ND< 0.100	ND< 0.425
1,2-Dichlorobenzene	ND< 0.100	ND< 0.597
1,3-Dichlorobenzene	ND< 0.100	ND< 0.597
1,4-Dichlorobenzene	ND< 0.100	ND< 0.597

Ketones	PPBv	ug / m3
Acetone	E 8.71	E 20.7
2-Butanone	0.570	1.68
2-Hexanone	ND< 0.500	ND< 2.04
4-Methyl-2-Pentanone	ND< 0.500	ND< 2.04

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.500	ND< 1.55
Methyl-tert-Butyl Ether	ND< 0.100	ND< 0.360
Vinyl Acetate	ND< 0.100	ND< 0.352

ELAP Number 10958 Method: EPA TO-15 Data File: A4573.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature:
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

TO-15 CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Lu Engineers	COMPANY:	SAME
ADDRESS:	2230 Penfield Rd.	ADDRESS:	
CITY:	Penfield	STATE: NY	ZIP: 14526
PHONE:	377-1450	FAX: 377-1266	
ATTN:	Eric Detweiler	ATTN:	
COMMENTS:	DUSR Ready Package needed.		

LAB PROJECT #: 10-1101
CLIENT PROJECT #: 5701-11
PROJECT NAME/SITE NAME: Former Churchville Ford
TURNAROUND TIME: (WORKING DAYS) STD OTHER
☐ 3 ☐ 5 ☒ 7 ☐
Quotation #

Sampling Procedure

DATE	SAMPLE LOCATION/FIELD ID	MATRIX	CANISTER	REGULATOR	START VACUUM in Hg	START TIME	END TIME	END DATE	END VACUUM in Hg	ANALYSIS: TCL	ANALYSIS: Halo	ANALYSIS: Site Specific	RETURN VACUUM	PARADIGM LAB SAMPLE NUMBER
3/17/10	SVS-JCL-02b	AIR	C 1009	R 5208	-28" Hg	9:21	5:15	3/17/10	-8	X			10	42595
3/17/10	IA-JCL-02b	AIR	C 1020	R 5097	-27	9:22	5:15	3/17/10	-5	X			8	42600
3/17/10	IA-JCL-02b Dup.	AIR	C 1015	R 5038	-28	9:24	5:16	3/17/10	-10	X			11	42601
3/17/10	SVS-JCL-03b	AIR	C 1001	R 5087	-27.5	9:53	5:23	3/17/10	-10	X			12	42602
3/17/10	IA-JCL-03b	AIR	C 1019	R 5014	-28.5	9:54	5:23	3/17/10	-4	X			5	42603
3/17/10	OA-JCL-04b	AIR	C 1010	R 5044	-30	9:57	5:32	3/17/10	-9	X			10	42604
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										
		AIR	C	R										

Remarks:

* 1 ug/m³ w/ 0.25 ug/m³ CT & TCE by TO-15 w/ CAT B Reporting

* Possible TCE contamination in subslab

****LAB USE ONLY BELOW THIS LINE****

Eric Detweiler/Christina Karas 3/17/10
Sampled By — Date/Time

Relinquished By — 3/19/10 8:00
Date/Time

Received By — 3/19/10 8:16
Date/Time

Elizabeth A. Honch 3/19/10 1445
Received @ Lab By — Date/Time

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

TO-15 EQUIPMENT CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:
COMPANY: Lu Engineers	COMPANY: Lu Engineers
ADDRESS: 2230 Penfield Rd.	ADDRESS: 2230 Penfield Rd.
CITY: Penfield STATE: NY ZIP: 14526	CITY: Penfield STATE: NY ZIP: 14526
PHONE: (585) 377-1450 FAX: 377-1266	PHONE: (585) 377-1450 FAX:
ATTN: Eric Detweiler	ATTN: Eric Detweiler
COMMENTS:	

LAB PROJECT #: 10-1101
CLIENT PROJECT #: 5701-11

TURNAROUND TIME: (WORKING DAYS)
STD OTHER
☐ 3 ☐ 5 ☒ 7 ☐

Quotation #

PROJECT NAME/SITE NAME: Former Churchville Ford

Equipment Tracking

CANISTER	SHIPPED VACUUM	CANISTER	SHIPPED VACUUM	CANISTER	SHIPPED VACUUM
C 1019	30	C		C	
C 1016	30	C		C	
C 1001	30	C		C	
C 1015	30	C		C	
C 1009	30	C		C	
C 1020	30	C		C	
C		C		C	
C		C		C	
C		C		C	
C		C		C	

Equipment Tracking

REGULATOR	FLOW	REGULATOR	FLOW	REGULATOR	FLOW
R 5080	1.4	R		R	
R 5220		R		R	
R 5033		R		R	
R 5094		R		R	
R 5047		R		R	
R 5011		R		R	
R		R		R	
R		R		R	
R		R		R	
R		R		R	

1 guage

3 ambient tips

Remarks: All equipment recd in good condition, 3/19.
EAH 3/19

****LAB USE ONLY BELOW THIS LINE****

Client
Picked up By — Date/Time

Returned By — Date/Time

Received By — Date/Time

Elizabeth A. Honch 3/19/10 1445
Received @ Lab By — Date/Time

Total Cost:

P.I.F.

PARADIGM

ENVIRONMENTAL SERVICES, INC.

TO-15 Sampling Equipment Request

Client:	**Lu Engineers**	**Contact:**	**Eric Detweiler**
Ship to Address:		**Project :**	**Former Churchville Ford**
Telephone:	**377-1450, ext. 227**		

Date Required	Return Date	# of Samples	Sample Type	Sample Collection	Turnaround
3/16/10	3/18/10	3	☒ Ambient Air ☐ Soil Vapor/ Sub/slab	☐ Grab ☐ 2 hr comp. ☒ 8 hr comp. (**Standard**) ☐ Hour Comp	☒ 5-7 Day (**Standard**) ☐ Rush Day

Analyte List	Canister QC	Reporting
☒TCL 8260 Volatiles (**Standard**) ☐ Other (please attach list)	☒ Batch QC (**Standard**) ☐ Individually Tested Canister QC	☐ **Standard** Paradigm Lab Report ☒ DUSR Ready Package (summary & raw data)

Date Required	Return Date	# of Samples	Sample Type	Sample Collection	Turnaround
3/16/10	3/18/10	3	☐ Ambient Air ☒ Soil Vapor/ Sub/slab	☐ Grab ☐ 2 hr comp. ☒ 8 hr comp. (**Standard**) ☐ Hour Comp	☒ 5-7 Day (**Standard**) ☐ Rush Day

Analyte List	Canister QC	Reporting
☒TCL 8260 Volatiles (**Standard**) ☐ Other (please attach list)	☒ Batch QC (**Standard**) ☐ Individually Tested Canister QC	☐ **Standard** Paradigm Lab Report ☒ DUSR Ready Package (summary & raw data)

- Any custom (non standard) item will need to be reviewed for pricing and availability.
- For Sub-slab and soil vapor sampling our regulators are set up to be utilized with ¼"OD tubing. The client is responsible for supplying the nut for the compression fitting unless otherwise agreed to by Paradigm.

Supporting QC
&
Raw Data

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Environmental Contract: _____

Lab code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

(Client Project Name) (Client Project No.)

Lab File ID (Standard): _____ Date Analyzed: 3/19/2010

Instrument ID: _____ Time Analyzed: _____

GC Column: _____ ID: ____ (mm)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	19994	5.27	33582	6.72	34120	10.60
UPPER LIMIT	27991	5.77	47015	7.22	47768	11.10
LOWER LIMIT	11996	4.77	20149	6.22	20472	10.10
Lab Sample No.						
4ppb 3/19/10	21209	5.28	37540	6.71	42491	10.60
2ppb 3/19/10	22178	5.27	33923	6.72	37048	10.60
1ppb 3/19/10	18643	5.27	33310	6.73	32740	10.60
0.4ppb 3/19/10	19697	5.27	32904	6.72	31108	10.60
0.1ppb 3/19/10	18241	5.28	30233	6.72	27214	10.60
Average	19994	5.27	33582	6.72	34120	10.60
2ppb 3/28/10	20182	5.28	35011	6.72	35882	10.60
Method Blank 3/28/10	18136	5.28	28751	6.72	27288	10.60
4264	12745	5.28	28269	6.72	29829	10.60
2.0ppb 3/29/10	22226	5.27	40761	6.73	41717	10.60
Method Blank 3/29/10	22751	5.28	38888	6.72	35315	10.60
4259	22495	5.26	38713	6.72	37758	10.60
4260	19414	5.28	37017	6.72	33002	10.60
4261	19556	5.27	31987	6.72	32734	10.60
4262	17609	5.27	31615	6.72	33581	10.60
4263	20928	5.26	36581	6.72	35814	10.61
LCS 2/29/10	23535	5.27	42683	6.72	48488 *	10.60

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Method Blank
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/28/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.102	ND< 0.676
Bromoform	ND< 0.102	ND< 1.04
Bromomethane	ND< 0.102	ND< 0.392
Carbon Tetrachloride	ND< 0.0409	ND< 0.254
Chlorethane	ND< 0.204	ND< 0.534
Chloroform	ND< 0.102	ND< 0.492
Chloromethane	ND< 0.102	ND< 0.209
Dibromochloromethane	ND< 0.102	ND< 0.859
1,2 Dibromoethane	ND< 0.102	ND< 0.776
1,1-Dichloroethane	ND< 0.102	ND< 0.409
1,1-Dichloroethene	ND< 0.102	ND< 0.400
1,2-Dichloroethane	ND< 0.102	ND< 0.409
cis-1,2-Dichloroethene	ND< 0.102	ND< 0.400
trans-1,2-Dichloroethene	ND< 0.102	ND< 0.400
1,2-Dichloropropane	ND< 0.204	ND< 0.934
cis-1,3-Dichloropropene	ND< 0.102	ND< 0.459
trans-1,3-Dichloropropene	ND< 0.102	ND< 0.459
Methylene Chloride	0.783	2.69
1,1,2,2-Tetrachloroethane	ND< 0.102	ND< 0.693
Tetrachloroethene	ND< 0.102	ND< 0.684
1,1,1-Trichloroethane	ND< 0.102	ND< 0.551
1,1,2-Trichloroethane	ND< 0.102	ND< 0.551
Trichloroethene	ND< 0.0481	ND< 0.256
Trichlorofluoromethane	ND< 0.102	ND< 0.567
Freon 113	ND< 0.102	ND< 0.776
Vinyl Chloride	ND< 0.102	ND< 0.259

Aromatics	PPBv	ug / m3
Benzene	ND< 0.102	ND< 0.325
Chlorobenzene	ND< 0.102	ND< 0.467
Ethylbenzene	ND< 0.102	ND< 0.442
Toluene	ND< 0.102	ND< 0.384
m,p-Xylene	ND< 0.102	ND< 0.442
o-Xylene	ND< 0.102	ND< 0.442
Styrene	ND< 0.102	ND< 0.434
1,2-Dichlorobenzene	ND< 0.102	ND< 0.609
1,3-Dichlorobenzene	ND< 0.102	ND< 0.609
1,4-Dichlorobenzene	ND< 0.102	ND< 0.609

Ketones	PPBv	ug / m3
Acetone	0.806	1.91
2-Butanone	ND< 0.511	ND< 1.50
2-Hexanone	ND< 0.511	ND< 2.09
4-Methyl-2-Pentanone	ND< 0.511	ND< 2.09

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.511	ND< 1.59
Methyl-tert-Butyl Ether	ND< 0.102	ND< 0.367
Vinyl Acetate	ND< 0.102	ND< 0.359

ELAP Number 10958 Method: EPA TO-15 Data File: A4567.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature:
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Method Blank
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/29/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.0998	ND< 0.661
Bromoform	ND< 0.0998	ND< 1.02
Bromomethane	ND< 0.0998	ND< 0.384
Carbon Tetrachloride	ND< 0.0399	ND< 0.248
Chlorethane	ND< 0.200	ND< 0.524
Chloroform	ND< 0.0998	ND< 0.482
Chloromethane	ND< 0.0998	ND< 0.204
Dibromochloromethane	ND< 0.0998	ND< 0.841
1,2 Dibromoethane	ND< 0.0998	ND< 0.759
1,1-Dichloroethane	ND< 0.0998	ND< 0.400
1,1-Dichloroethene	ND< 0.0998	ND< 0.392
1,2-Dichloroethane	ND< 0.0998	ND< 0.400
cis-1,2-Dichloroethene	ND< 0.0998	ND< 0.392
trans-1,2-Dichloroethene	ND< 0.0998	ND< 0.392
1,2-Dichloropropane	ND< 0.200	ND< 0.916
cis-1,3-Dichloropropene	ND< 0.0998	ND< 0.449
trans-1,3-Dichloropropene	ND< 0.0998	ND< 0.449
Methylene Chloride	2.00	6.87
1,1,2,2-Tetrachloroethane	ND< 0.0998	ND< 0.678
Tetrachloroethene	ND< 0.0998	ND< 0.669
1,1,1-Trichloroethane	ND< 0.0998	ND< 0.539
1,1,2-Trichloroethane	ND< 0.0998	ND< 0.539
Trichloroethene	ND< 0.0469	ND< 0.249
Trichlorofluoromethane	ND< 0.0998	ND< 0.555
Freon 113	ND< 0.0998	ND< 0.759
Vinyl Chloride	ND< 0.0998	ND< 0.253

Aromatics	PPBv	ug / m3
Benzene	ND< 0.0998	ND< 0.318
Chlorobenzene	ND< 0.0998	ND< 0.457
Ethylbenzene	ND< 0.0998	ND< 0.433
Toluene	ND< 0.0998	ND< 0.376
m,p-Xylene	ND< 0.0998	ND< 0.433
o-Xylene	ND< 0.0998	ND< 0.433
Styrene	ND< 0.0998	ND< 0.425
1,2-Dichlorobenzene	ND< 0.0998	ND< 0.596
1,3-Dichlorobenzene	ND< 0.0998	ND< 0.596
1,4-Dichlorobenzene	ND< 0.0998	ND< 0.596

Ketones	PPBv	ug / m3
Acetone	2.33	5.53
2-Butanone	ND< 0.499	ND< 1.47
2-Hexanone	ND< 0.499	ND< 2.04
4-Methyl-2-Pentanone	ND< 0.499	ND< 2.04

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	0.569	1.77
Methyl-tert-Butyl Ether	ND< 0.0998	ND< 0.359
Vinyl Acetate	ND< 0.0998	ND< 0.351

ELAP Number 10958 Method: EPA TO-15 Data File: A4581.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Can C-1001

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/11/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.105	ND< 0.696
Bromoform	ND< 0.105	ND< 1.07
Bromomethane	ND< 0.105	ND< 0.404
Carbon Tetrachloride	ND< 0.0419	ND< 0.260
Chlorethane	ND< 0.209	ND< 0.547
Chloroform	ND< 0.105	ND< 0.507
Chloromethane	ND< 0.105	ND< 0.215
Dibromochloromethane	ND< 0.105	ND< 0.885
1,2 Dibromoethane	ND< 0.105	ND< 0.799
1,1-Dichloroethane	ND< 0.105	ND< 0.421
1,1-Dichloroethene	ND< 0.105	ND< 0.412
1,2-Dichloroethane	ND< 0.105	ND< 0.421
cis-1,2-Dichloroethene	ND< 0.105	ND< 0.412
trans-1,2-Dichloroethene	ND< 0.105	ND< 0.412
1,2-Dichloropropane	ND< 0.209	ND< 0.957
cis-1,3-Dichloropropene	ND< 0.105	ND< 0.472
trans-1,3-Dichloropropene	ND< 0.105	ND< 0.472
Methylene Chloride	1.29	4.43
1,1,2,2-Tetrachloroethane	ND< 0.105	ND< 0.713
Tetrachloroethene	ND< 0.105	ND< 0.704
1,1,1-Trichloroethane	ND< 0.105	ND< 0.567
1,1,2-Trichloroethane	ND< 0.105	ND< 0.567
Trichloroethene	ND< 0.0492	ND< 0.262
Trichlorofluoromethane	ND< 0.105	ND< 0.584
Freon 113	ND< 0.105	ND< 0.799
Vinyl Chloride	ND< 0.105	ND< 0.266

Aromatics	PPBv	ug / m3
Benzene	ND< 0.105	ND< 0.335
Chlorobenzene	ND< 0.105	ND< 0.481
Ethylbenzene	ND< 0.105	ND< 0.455
Toluene	ND< 0.105	ND< 0.395
m,p-Xylene	ND< 0.105	ND< 0.455
o-Xylene	ND< 0.105	ND< 0.455
Styrene	ND< 0.105	ND< 0.447
1,2-Dichlorobenzene	ND< 0.105	ND< 0.627
1,3-Dichlorobenzene	ND< 0.105	ND< 0.627
1,4-Dichlorobenzene	ND< 0.105	ND< 0.627

Ketones	PPBv	ug / m3
Acetone	0.855	2.03
2-Butanone	ND< 0.524	ND< 1.54
2-Hexanone	ND< 0.524	ND< 2.14
4-Methyl-2-Pentanone	ND< 0.524	ND< 2.14

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.524	ND< 1.63
Methyl-tert-Butyl Ether	ND< 0.105	ND< 0.378
Vinyl Acetate	ND< 0.105	ND< 0.369

ELAP Number 10958 Method: EPA TO-15 Data File: A4518.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Can C-1009

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/11/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.0998	ND< 0.661
Bromoform	ND< 0.0998	ND< 1.02
Bromomethane	ND< 0.0998	ND< 0.384
Carbon Tetrachloride	ND< 0.0399	ND< 0.248
Chlorethane	ND< 0.200	ND< 0.524
Chloroform	ND< 0.0998	ND< 0.482
Chloromethane	ND< 0.0998	ND< 0.204
Dibromochloromethane	ND< 0.0998	ND< 0.841
1,2 Dibromoethane	ND< 0.0998	ND< 0.759
1,1-Dichloroethane	ND< 0.0998	ND< 0.400
1,1-Dichloroethene	ND< 0.0998	ND< 0.392
1,2-Dichloroethane	ND< 0.0998	ND< 0.400
cis-1,2-Dichloroethene	ND< 0.0998	ND< 0.392
trans-1,2-Dichloroethene	ND< 0.0998	ND< 0.392
1,2-Dichloropropane	ND< 0.200	ND< 0.916
cis-1,3-Dichloropropene	ND< 0.0998	ND< 0.449
trans-1,3-Dichloropropene	ND< 0.0998	ND< 0.449
Methylene Chloride	0.598	2.05
1,1,2,2-Tetrachloroethane	ND< 0.0998	ND< 0.678
Tetrachloroethene	ND< 0.0998	ND< 0.669
1,1,1-Trichloroethane	ND< 0.0998	ND< 0.539
1,1,2-Trichloroethane	ND< 0.0998	ND< 0.539
Trichloroethene	ND< 0.0469	ND< 0.249
Trichlorofluoromethane	ND< 0.0998	ND< 0.555
Freon 113	ND< 0.0998	ND< 0.759
Vinyl Chloride	ND< 0.0998	ND< 0.253

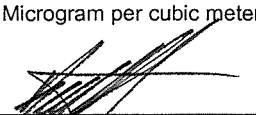
Aromatics	PPBv	ug / m3
Benzene	ND< 0.0998	ND< 0.318
Chlorobenzene	ND< 0.0998	ND< 0.457
Ethylbenzene	ND< 0.0998	ND< 0.433
Toluene	ND< 0.0998	ND< 0.376
m,p-Xylene	ND< 0.0998	ND< 0.433
o-Xylene	ND< 0.0998	ND< 0.433
Styrene	ND< 0.0998	ND< 0.425
1,2-Dichlorobenzene	ND< 0.0998	ND< 0.596
1,3-Dichlorobenzene	ND< 0.0998	ND< 0.596
1,4-Dichlorobenzene	ND< 0.0998	ND< 0.596

Ketones	PPBv	ug / m3
Acetone	ND< 0.499	ND< 1.18
2-Butanone	ND< 0.499	ND< 1.47
2-Hexanone	ND< 0.499	ND< 2.04
4-Methyl-2-Pentanone	ND< 0.499	ND< 2.04

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.499	ND< 1.55
Methyl-tert-Butyl Ether	ND< 0.0998	ND< 0.359
Vinyl Acetate	ND< 0.0998	ND< 0.351

ELAP Number 10958 Method: EPA TO-15 Data File: A4526.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: 

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Can C-1010

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/11/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.100	ND< 0.663
Bromoform	ND< 0.100	ND< 1.02
Bromomethane	ND< 0.100	ND< 0.384
Carbon Tetrachloride	ND< 0.0400	ND< 0.249
Chlorethane	ND< 0.200	ND< 0.524
Chloroform	ND< 0.100	ND< 0.483
Chloromethane	ND< 0.100	ND< 0.204
Dibromochloromethane	ND< 0.100	ND< 0.843
1,2 Dibromoethane	ND< 0.100	ND< 0.761
1,1-Dichloroethane	ND< 0.100	ND< 0.401
1,1-Dichloroethene	ND< 0.100	ND< 0.393
1,2-Dichloroethane	ND< 0.100	ND< 0.401
cis-1,2-Dichloroethene	ND< 0.100	ND< 0.393
trans-1,2-Dichloroethene	ND< 0.100	ND< 0.393
1,2-Dichloropropane	ND< 0.200	ND< 0.916
cis-1,3-Dichloropropene	ND< 0.100	ND< 0.450
trans-1,3-Dichloropropene	ND< 0.100	ND< 0.450
Methylene Chloride	1.30	4.47
1,1,2,2-Tetrachloroethane	ND< 0.100	ND< 0.679
Tetrachloroethene	ND< 0.100	ND< 0.671
1,1,1-Trichloroethane	ND< 0.100	ND< 0.540
1,1,2-Trichloroethane	ND< 0.100	ND< 0.540
Trichloroethene	ND< 0.0470	ND< 0.250
Trichlorofluoromethane	ND< 0.100	ND< 0.556
Freon 113	ND< 0.100	ND< 0.761
Vinyl Chloride	ND< 0.100	ND< 0.254

Aromatics	PPBv	ug / m3
Benzene	ND< 0.100	ND< 0.319
Chlorobenzene	ND< 0.100	ND< 0.458
Ethylbenzene	ND< 0.100	ND< 0.434
Toluene	ND< 0.100	ND< 0.376
m,p-Xylene	ND< 0.100	ND< 0.434
o-Xylene	ND< 0.100	ND< 0.434
Styrene	ND< 0.100	ND< 0.425
1,2-Dichlorobenzene	ND< 0.100	ND< 0.597
1,3-Dichlorobenzene	ND< 0.100	ND< 0.597
1,4-Dichlorobenzene	ND< 0.100	ND< 0.597

Ketones	PPBv	ug / m3
Acetone	0.634	1.50
2-Butanone	ND< 0.500	ND< 1.47
2-Hexanone	ND< 0.500	ND< 2.04
4-Methyl-2-Pentanone	ND< 0.500	ND< 2.04

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.500	ND< 1.55
Methyl-tert-Butyl Ether	ND< 0.100	ND< 0.360
Vinyl Acetate	ND< 0.100	ND< 0.352

ELAP Number 10958 Method: EPA TO-15 Data File: A4526.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Can C-1015
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/11/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.102	ND< 0.676
Bromoform	ND< 0.102	ND< 1.04
Bromomethane	ND< 0.102	ND< 0.392
Carbon Tetrachloride	ND< 0.0409	ND< 0.254
Chlorethane	ND< 0.204	ND< 0.534
Chloroform	ND< 0.102	ND< 0.492
Chloromethane	ND< 0.102	ND< 0.209
Dibromochloromethane	ND< 0.102	ND< 0.859
1,2 Dibromoethane	ND< 0.102	ND< 0.776
1,1-Dichloroethane	ND< 0.102	ND< 0.409
1,1-Dichloroethene	ND< 0.102	ND< 0.400
1,2-Dichloroethane	ND< 0.102	ND< 0.409
cis-1,2-Dichloroethene	ND< 0.102	ND< 0.400
trans-1,2-Dichloroethene	ND< 0.102	ND< 0.400
1,2-Dichloropropane	ND< 0.204	ND< 0.934
cis-1,3-Dichloropropene	ND< 0.102	ND< 0.459
trans-1,3-Dichloropropene	ND< 0.102	ND< 0.459
Methylene Chloride	0.961	3.30
1,1,2,2-Tetrachloroethane	ND< 0.102	ND< 0.693
Tetrachloroethene	ND< 0.102	ND< 0.684
1,1,1-Trichloroethane	ND< 0.102	ND< 0.551
1,1,2-Trichloroethane	ND< 0.102	ND< 0.551
Trichloroethene	ND< 0.0481	ND< 0.256
Trichlorofluoromethane	ND< 0.102	ND< 0.567
Freon 113	ND< 0.102	ND< 0.776
Vinyl Chloride	ND< 0.102	ND< 0.259

Aromatics	PPBv	ug / m3
Benzene	ND< 0.102	ND< 0.325
Chlorobenzene	ND< 0.102	ND< 0.467
Ethylbenzene	ND< 0.102	ND< 0.442
Toluene	ND< 0.102	ND< 0.384
m,p-Xylene	ND< 0.102	ND< 0.442
o-Xylene	ND< 0.102	ND< 0.442
Styrene	ND< 0.102	ND< 0.434
1,2-Dichlorobenzene	ND< 0.102	ND< 0.609
1,3-Dichlorobenzene	ND< 0.102	ND< 0.609
1,4-Dichlorobenzene	ND< 0.102	ND< 0.609

Ketones	PPBv	ug / m3
Acetone	0.715	1.70
2-Butanone	ND< 0.511	ND< 1.50
2-Hexanone	ND< 0.511	ND< 2.09
4-Methyl-2-Pentanone	ND< 0.511	ND< 2.09

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.511	ND< 1.59
Methyl-tert-Butyl Ether	ND< 0.102	ND< 0.367
Vinyl Acetate	ND< 0.102	ND< 0.359

ELAP Number 10958 Method: EPA TO-15 Data File: A4532.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Can C-1019

Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/11/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.105	ND< 0.696
Bromoform	ND< 0.105	ND< 1.07
Bromomethane	ND< 0.105	ND< 0.404
Carbon Tetrachloride	ND< 0.0420	ND< 0.261
Chlorethane	ND< 0.210	ND< 0.550
Chloroform	ND< 0.105	ND< 0.507
Chloromethane	ND< 0.105	ND< 0.215
Dibromochloromethane	ND< 0.105	ND< 0.885
1,2 Dibromoethane	ND< 0.105	ND< 0.799
1,1-Dichloroethane	ND< 0.105	ND< 0.421
1,1-Dichloroethene	ND< 0.105	ND< 0.412
1,2-Dichloroethane	ND< 0.105	ND< 0.421
cis-1,2-Dichloroethene	ND< 0.105	ND< 0.412
trans-1,2-Dichloroethene	ND< 0.105	ND< 0.412
1,2-Dichloropropane	ND< 0.210	ND< 0.962
cis-1,3-Dichloropropene	ND< 0.105	ND< 0.472
trans-1,3-Dichloropropene	ND< 0.105	ND< 0.472
Methylene Chloride	0.916	3.15
1,1,2,2-Tetrachloroethane	ND< 0.105	ND< 0.713
Tetrachloroethene	ND< 0.105	ND< 0.704
1,1,1-Trichloroethane	ND< 0.105	ND< 0.567
1,1,2-Trichloroethane	ND< 0.105	ND< 0.567
Trichloroethene	ND< 0.0494	ND< 0.263
Trichlorofluoromethane	ND< 0.105	ND< 0.584
Freon 113	ND< 0.105	ND< 0.799
Vinyl Chloride	ND< 0.105	ND< 0.266

Aromatics	PPBv	ug / m3
Benzene	ND< 0.105	ND< 0.335
Chlorobenzene	ND< 0.105	ND< 0.481
Ethylbenzene	ND< 0.105	ND< 0.455
Toluene	ND< 0.105	ND< 0.395
m,p-Xylene	ND< 0.105	ND< 0.455
o-Xylene	ND< 0.105	ND< 0.455
Styrene	ND< 0.105	ND< 0.447
1,2-Dichlorobenzene	ND< 0.105	ND< 0.627
1,3-Dichlorobenzene	ND< 0.105	ND< 0.627
1,4-Dichlorobenzene	ND< 0.105	ND< 0.627

Ketones	PPBv	ug / m3
Acetone	ND< 0.525	ND< 1.25
2-Butanone	ND< 0.525	ND< 1.55
2-Hexanone	ND< 0.525	ND< 2.15
4-Methyl-2-Pentanone	ND< 0.525	ND< 2.15

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.525	ND< 1.63
Methyl-tert-Butyl Ether	ND< 0.105	ND< 0.378
Vinyl Acetate	ND< 0.105	ND< 0.369

ELAP Number 10958 Method: EPA TO-15 Data File: A4536.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Lu Engineers

Client Job Site: Former Churchville Ford
Client Job Number: 5701-11
Field Location: N/A
Field ID Number: N/A
Sample Type: Air

Lab Project Number: 10-1101
Lab Sample Number: Can C-1020
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03/11/2010

Halocarbons	PPBv	ug / m3
Bromodichloromethane	ND< 0.103	ND< 0.682
Bromoform	ND< 0.103	ND< 1.05
Bromomethane	ND< 0.103	ND< 0.396
Carbon Tetrachloride	ND< 0.0410	ND< 0.255
Chlorethane	ND< 0.205	ND< 0.537
Chloroform	ND< 0.103	ND< 0.497
Chloromethane	ND< 0.103	ND< 0.211
Dibromochloromethane	ND< 0.103	ND< 0.868
1,2 Dibromoethane	ND< 0.103	ND< 0.784
1,1-Dichloroethane	ND< 0.103	ND< 0.413
1,1-Dichloroethene	ND< 0.103	ND< 0.404
1,2-Dichloroethane	ND< 0.103	ND< 0.413
cis-1,2-Dichloroethene	ND< 0.103	ND< 0.404
trans-1,2-Dichloroethene	ND< 0.103	ND< 0.404
1,2-Dichloropropane	ND< 0.205	ND< 0.939
cis-1,3-Dichloropropene	ND< 0.103	ND< 0.463
trans-1,3-Dichloropropene	ND< 0.103	ND< 0.463
Methylene Chloride	0.887	3.05
1,1,2,2-Tetrachloroethane	ND< 0.103	ND< 0.699
Tetrachloroethene	ND< 0.103	ND< 0.691
1,1,1-Trichloroethane	ND< 0.103	ND< 0.556
1,1,2-Trichloroethane	ND< 0.103	ND< 0.556
Trichloroethene	ND< 0.0482	ND< 0.256
Trichlorofluoromethane	ND< 0.103	ND< 0.573
Freon 113	ND< 0.103	ND< 0.784
Vinyl Chloride	ND< 0.103	ND< 0.261

Aromatics	PPBv	ug / m3
Benzene	ND< 0.103	ND< 0.329
Chlorobenzene	ND< 0.103	ND< 0.472
Ethylbenzene	ND< 0.103	ND< 0.447
Toluene	ND< 0.103	ND< 0.388
m,p-Xylene	ND< 0.103	ND< 0.447
o-Xylene	ND< 0.103	ND< 0.447
Styrene	ND< 0.103	ND< 0.438
1,2-Dichlorobenzene	ND< 0.103	ND< 0.615
1,3-Dichlorobenzene	ND< 0.103	ND< 0.615
1,4-Dichlorobenzene	ND< 0.103	ND< 0.615

Ketones	PPBv	ug / m3
Acetone	0.575	1.36
2-Butanone	ND< 0.513	ND< 1.51
2-Hexanone	ND< 0.513	ND< 2.10
4-Methyl-2-Pentanone	ND< 0.513	ND< 2.10

Miscellaneous	PPBv	ug / m3
Carbon Disulfide	ND< 0.513	ND< 1.59
Methyl-tert-Butyl Ether	ND< 0.103	ND< 0.371
Vinyl Acetate	ND< 0.103	ND< 0.362

ELAP Number 10958 Method: EPA TO-15 Data File: A45.7.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter

Signature: _____
Bruce Hoogesteger: Technical Director

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 Eric Detweiler Date/Time Prepared 3/17/10

Preparer's Affiliation Lu Engineers Phone No. 385-7417

Purpose of Investigation Re-sample post-injection as per RAWP

1. OCCUPANT:

Interviewed: Y / N

Last Name: Meyer First Name: Mark

Address: 111 S. Main St., Churchville, NY

County: Monroe

Home Phone: _____ Office Phone: 293-1000

Number of Occupants/persons at this location 10-12 Age of Occupants _____

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 School (Commercial/Multi-use)
Industrial Church Other: _____

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

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other) Showroom/Doll-up shop/Parts store

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Trucks, RV & Boat Center (sales & maintenance)

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

Other characteristics:

Number of floors 2 Building age 1988 (2 additions - 1st 1989, 2nd 1995)

Is the building insulated? (Y) / N How air tight? Tight / Average / (Not Tight) → overhead doors in shop & showroom

4. AIRFLOW

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

Airflow between floors

First floor is open to second floor (similar to loft) in area of 2nd (1995) addition (showro this is only portion of bldg w/ a second floor and air is unrestricted between floors; also overhead door exists at west end of this space (not air tight). since space heaters are used the airflow is not influenced by a closed heating system

Airflow near source

Former source is in SW corner of workshop area - large open floor plan w/ 15' ceiling; 5 overhead doors open/close frequently

Outdoor air infiltration

Evident at overhead doors (lower pressure in bldg)

Infiltration into air ducts

NA

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

a. Above grade construction:	wood frame	(concrete)	stone	brick (block/steel siding
b. Basement type:	full	crawlspace	slab	(other) NONE
c. Basement floor:	concrete	dirt	stone	other NA
d. Basement floor:	uncovered	covered	covered with NA	
e. Concrete floor:	unsealed	(sealed)	sealed with floor tile/epoxy	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with _____	
h. The basement is:	wet	damp	dry	moldy (NA)
i. The basement is:	finished	unfinished	partially finished (NA)	
j. Sump present?	Y (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: NA (feet) (at grade)

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

The shop/bldg. floor concrete is in very good condition in workshop/roll-up area and primarily free of cracks; 3 elongate floor trench drains (open) are in workshop and lead to sub-floor O/W separator

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	Hot water baseboard	
(Space Heaters)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other Forced hot air (gas) mounted to ceiling

- 5 units in workshop
- 4 units in office/showroom

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
~~Electric~~	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: natural gas

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

Air conditioning: (Central Air) Window units Open Windows None

→ 4 separate units in sales/showroom/office areas

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.

4 Ducts located in parts warehouse area w/ duct work running into office/showroom area; duct work is tight and in very good condition

7. OCCUPANCY

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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	workshop, office/showroom, parts & accessories/sales
2nd Floor	offices
3rd Floor	NA
4th Floor	NA

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 in workshop/loft-up shop area (gas cans, vehicles, boats etc...)

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? Northwestern portion of b

g. Is there smoking in the building? Y (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? mop floors, bathrooms workshop

i. Have cosmetic products been used recently? Y (N) When & Type? _____

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? _____

m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y)/N If yes, where vented? through roof

o. Is there a clothes dryer? (Y)/N If yes, is it vented outside? (Y)/N NW workshop corner

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? (Y)/N (boat/RV washing)
If yes, please describe: there is a odor of detergent in shop from cleaners, parts cleaner odor

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? brake cleaner, parts cleaners, paint cleaners, mineral spirits, degreasers, paint operations cleaners, solvent wash tub

If yes, are their clothes washed at work? Y (N)

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 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

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:

NA

First Floor:

see attached drawing

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.

See attached drawing

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Rae

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) (ppb)	Photo ** Y / N
WORKSHOP SW CORNER	SPRAY PAINT (1)	11 oz.	U	toluol, naptha, acetone, propane, N. Butane	1241 ppb	
↓	Brakleen (2)	19 oz.	U	Tetrachloroethylene, CO_2, acetone	1458 ppb	
↓	Zepunch Engine Degreaser	24 oz	U	Not listed	1150 ppb	
↓	Westley's Bleeche White (cleaner)	32 oz	U	Not listed	748 ppb	
METAL CABINET - BAY 5/4					★ 95 ppm at doors of cabinet	
↓	Spray Paint (10)	11 oz.	U	toluene, acetone, xylene, N. Butane, naptha	1320 ppb	
↓	Spray Stripper (1)	14 oz.	U	methanol, methylene chloride, tolu	See cabinet reading above (too high for individual readings)	
↓	WD-40 (1)	8 oz.	U	petroleum distillates	↓	
↓	Self-etching primer (1)	11 oz.	U	N. Butane, MEK, acetone, toluene, propane		
↓	Glass cleaner (6)	19 oz.	U/UO	butoxy ethanol, Ethly Alcohol methane, propane		
↓	Monster Spray Wax (7)	11 oz.	U	alaphatic hydrocarbons, cyclo methachlor, 1,1-difluoroethene		
↓	Engine fogging fluid (4)	13 oz.	U	petroleum distillates, isobutane/n-butane		
↓	Brakleen (1)	19 oz.	U	tetrachloroethylene, CO_2		
↓	Zep Sheen furniture cleaner (1)	16 oz.	U	Isoparraffinic solvent, isobutane, propane		
↓	Monster Spray foam (8)	19 oz.	U	liquified petrol. gas, monobutyl ether		
↓	Zep Silicone spray (7)	1 lb	U	heptane / polydimethyl solaxane		
↓	Spray adhesive (1)	13 oz.	U	methylene chloride, MEK, hexane, isobutane		
↓	Napa Carb Cleaner	12 oz	U	xylene, methyl alcohol, acetone, ethylbenzene		
↓	Dap + Contact Cement	32 oz	U	Petrol. naptha, MEK, toluene	↓	

* 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.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Rae

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
METAL CABINET (STORAGE) WORKSHOP BAY 4/5						
↓	Stripeeze	1qt.	U	petrol. distillates, toluene, methanol, acetone	see prev. pg.	
↓	Adhesive Remover Solvent	1 gal	U *NO LID	naptha, petroleum, petrol. distillates aromatic hydrocarbons	99 ppm	
SOUTH END BAY 3						
↓	Spray Adhesive (1)	16 oz.	U	methylene chloride Hydrocarbon mixture	1616 ppb	
↓	Napa Silicone Spray (1)	11 oz.	U	acetone, hexane, propane, cyclohexane dimethyl butane 2,3-dimethyl butane	2780 ppb	
↓	Once Over (1)	24 oz.	U	propane, isobutane, dipropanol glycol methyl ether	1515 ppb	
↓	Dielectric grease (1)	3.3 oz.	U	Dimethyl polysiloxane	1560 ppb	
BAY 1 - EAST WALL WORKBENCH						
	2-26 electrical cleaner (1)	11 oz.	U	Butyl sterate, petrol. distillates	1550 ppb	
	Once over (1)	24 oz.	U	see above	1360 ppb	
	Spray paint (1)	16 oz	U	toluene, hydrocarbons, ketone	2664 ppb	
	Aratari Auto Finishes cleaner/wax (1)	32 oz	U		260 ppm	
	Silicon protectant & lube - Yamaha (1)	12.5 oz	U	perchloroethylene, paraphin petrol. distillates	476 ppm	
	Zep 40 cleaner (1)	24 oz.	U	alcohol / ether	1362 ppb	
PARTS STORAGE ROOM (south of workshop)						
☆	Zep Formula 3000	1 gal	UO	1,1,1 - Benzene, carbon tetra-chloride, trichloroethylene	3050 ppb	☆

* 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.

Workshop Product Inventory (as of 3/17/10)

PRODUCT NAME	QUANTITY	OPENED (O) or UNOPENED (U)/ PID READING (ppb)	CONDITION	INGREDIENTS
Cabinet *Background PID reading for entire cabinet is 95,000 ppb (at doors while closed)				
Spray Paint	10 x 11oz	O	Good	Toluene, Acetone, Xylene
Spray Stripper	1 x 19oz	O	Good	Methanol, Methylene Chloride
WD-40	1 x 8oz	U	Good	Petroleum distillates
Self Etching Primer	1 x 11oz	O	Good	Acetone, Toluene, MEK
Glass Cleaner	6 x 19oz	O	Good	Butoxyethanol, Ethyl Alcohol, Methane, Propane
Monster Spay Wax	7 x 11oz	O	Good	Aliphatic hydrocarbon, cyclo methyl chloro, 1,1-difluroethene
Engine Fogging Fluid	4 x 13oz	O	Good	Petroleum distillates, Isobutene, n-Butane
Brakleen	1 x 19oz	O	Good	Tetrachloroethylene
Zep Sheen Furniture Cleaner	1 x 16oz	O	Good	Isoparaffinic solvent, Isobutane, Propane
Monster Spray Foam	8 x 19oz	O	Good	Liquefied petroleum gas, monobutyl ether
Zep Silicone Spray	7 x 1lb	O	Good	Heptane, Polydimethyl, solokane
Spray Adhesive	1 x 13oz	O	Good	Methylene Chloride, MEK, Hexane, Isobutane
Napa Carborator Cleaner	1 x12oz	O	Good	Xylene, Methyl alcohol, Acetone, Ethylbenzene
Dapt Contact Cement	1 x 32oz	O	Good	Petroleum, Naphthalene, MEK, Toluene
Stripeeze	1 x 1quart	O	Good	Petroleum distillates, Toluene, Methanol, Acetone
Adhesive Remover solvent	1 x 1 gal	O	No Lid	Naphthalene petroleum, Petroleum distillates, Aromatic hydro carbons
South End (Bay 3)				
Spray Adhesive		O / 1616	Good	Methyl Chloride, Hydrocarbon mixture
Napa Silicone Spray		O / 275	Good	Acetone, Hexane Propane 2,3-Dimethylbutane, Cyclohexane, Dimethylbutane
Once Over		O / 1515	Good	Propane, Isobutane, Dipropylene glycol, Methyl ether
Di-Electric Grease		O / 1560	Good	Dimethylpolysiloxane
East Wall-Bench				
2-26 electric Cleaner	1 x 11 oz	O /1550	Good	Petroleum Distillates, Butyl Sterates
Di-Electric Grease	1 x 33 oz	O/487	Good	Petroleum Distillates, Butyl Sterates
Once Over		O / 1360	Good	Petroleum Distillates, Butyl Sterates
Spray Paint	1 x 11 oz	O/ 2664	Good	Hydrocarbon, Keytone, Toluene
Aratari Auto Finisher Cleaner/Wax	1 x 32 oz	O / 260,000	Good	-
Yamaha Silicon Protectant and Lube	1 x 12.5 oz	O / 476,000	Good	Perchloroethylene, Paraffin, Petroleum Distillates
Zep 40 Cleaner	1 x 24 oz	O / 1362	Good	Alcone, Ether
Parts Washing Bin	1 x 35 gal	O / 54,000	Good	Petroleum Distillates, Tetrachloroethylene
CCR Tyme-1 Carbonator Cleaner	1 x 5 gal	O / 3773	Good	Cyclohexanol, Potassium oleate, Tetrachloroethylene
Parts Supply Room				
Zep Formula 3000	1 x 1 gal	U / 3050	Good	1,1,1-Benzene, Carbon tetrachloride
South Wall (Bay 4)				
Spray Paint	1 x 11 oz	O / 1241	Good	Toluene, Naphthalene, Acetone, Propane, n-Butane
Brakleen (Brake Cleaner	2 x 22 oz	O / 1458	Good	Tetrachloroethylene (PCE)
Brake Fluid	1 x 32 oz	O	-	Not listed-
Disc Brake Fluid	1 x 9 oz	O / 95,000	-	Not listed-

PRODUCT NAME	QUANTITY	OPENED (O) or UNOPENED (U)/ PID READING (ppb)	CONDITION	INGREDIENTS
South Wall (Bay 4) cont.				
Zepunch Engine Degreaser	1 24 oz	O / 1122	Good	Light aromatic Naphthalene, Tetrachloroethylene, Mono Isopropyl Biphenyls, Nonionic surfactant, CO_2
Wrestley's Bleach-White	1 x 32 oz	O/748	Good	Not listed
Waste Oil Tank	300-400 gal	O/1126	Spillage on floor	Not listed
Bathroom				
Excelon Floor Polish	1 x 2 gal	O/347	Good	Ethyl Ether, Dipropylene glycol methyl ether