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July 30, 2007

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

Attention:

Mr. Benjamin Rung, Project Manager

Subject:

Vapor Intrusion Evaluation Letter Report

Becker Electronics Manufacturing Site - Site No. 4-20-007

MACTEC Engineering and Consulting, P.C. Project No. 3612072072

Dear Mr. Rung,

MACTEC Engineering and Consulting, P.C., (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC) is pleased to present this Vapor Intrusion Evaluation (VIE) letter report for the Immediate Investigation Work Assignment (IIWA) #D004434-02 for soil vapor, groundwater and indoor air sampling at the Becker Electronics Manufacturing Site # 4-20-007 (Site), dated January 5, 2007. Discussed in this letter report are field activities and analytical results for the Site. Field activities were conducted as outlined in the Field Investigation Work Plan during an initial sampling event in February, 2007 (MACTEC, 2005). After a review of the preliminary data, the NYSDEC directed MACTEC to conduct subslab and indoor air sampling. This additional field event was completed in April, 2007.

MACTEC Engineering and Consulting, P.C. Project No. 3612072072

Introduction

The Site is located on approximately 8 acres along the south side of Route 145 in East Durham, Greene County, New York (Figures 1 and 2). Since 1980, solvent contamination has been detected in groundwater surrounding the Site. In 1982, Becker Electronics closed the facility and filed for bankruptcy. The NYSDEC completed a Remedial Investigation/Feasibility Study (RI/FS) for this Site in 1996 and a Record of Decision was subsequently signed. As part of a Remedial Action plan, impacted off-site private drinking water wells were fitted with carbon filtration systems. The final remedy for the Site was completed in 1999. Remedial activities included debris pile capping, building demolition, soil removal, and groundwater pumping with on-site treatment. groundwater treatment system is currently operating.

This letter report provides a brief summary of the activities completed and the sampling and analysis findings for the VIE conducted by MACTEC. Enclosed are figures that show the sampling points and area of study and tables presenting the final analytical results. Also attached are soil vapor implant diagrams, field data records, indoor air questionnaire and inventory records, photographs, weather data and Data Usability Summary Reports (DUSR).

Field Activities

Based on previous investigations and current conditions, the NYSDEC directed MACTEC to conduct soil vapor and groundwater sampling at eight locations on or down gradient of the Site. At each location soil vapor was attempted to be sampled from within the vadose zone. MACTEC also attempted to collect groundwater samples from each boring location. Due to the dense soil formation, the actual number of samples per location and sample collection depths varied. Sampling was conducted during the week of February 5, 2007.

After a review of the data, the NYSDEC directed MACTEC to conduct sub-slab and indoor air sampling at six properties along Route 145. This sampling was completed during the week of April 2, 2007.

Soil Vapor Sampling (February, 2007)

Temporary soil vapor points were installed at five locations to evaluate the potential vapor migration contaminants from the vadose zone (SV-1, SV-3, SV-5, SV-6, and SV-8 on Figure 1). Previous soil remediation and groundwater treatment actions have focused on impacts near PW-1. Groundwater flows northeasterly and discharges into a stream located approximately 350 feet northeast of Route 145. The temporary soil vapor implant logs are provided as Attachment A. Soil vapor probe construction and sampling procedures were in accordance with the NYSDOH guidance (NYSDOH, 2006).

At each location, a 2-inch diameter borehole was created using direct-push drilling methods to evacuate a soil profile with a macrocore sampler. Subsurface soil samples were collected using a 4-foot long 2-inch diameter core sampler with an acrylic liner of discrete subsurface soil samples. Soil samples were collected continuously from the ground surface to refusal. Photoionization detector (PID) headspace readings were used to screen soil samples for the presence of volatile organic compounds (VOCs) as each soil sample was removed from the sample collection tube. Upon removal of the soil, the hole remained open allowing for the installation of the soil vapor implant.

After review of the subsurface conditions, MACTEC installed a temporary Geoprobe soil vapor implant at each location. Glass beads were used to create a sampling zone around the screen. The implants included a 6-inch length, double woven stainless steel wire screen which threaded into a disposable stainless steel point. Approximately 250 milliliters (ml) of glass beads were placed in the hole and brought to a depth approximately one foot above the implant screen. Hydrated powdered bentonite was placed above the glass beads. Any remaining void space was filled with sand to within six inches of the ground surface. The remaining open space was sealed with bentonite. Polyethylene tubing was extended from the implant to the ground surface to permit sampling.

Soil vapor points were sampled approximately 24 hours after installation. Before sampling, one liter of soil vapor was purged using a 580B OVM PID pump. This equates to slightly greater than

three times the volume of the annular space of the screen pack plus the volume of the sample tubing. During the soil vapor purge, the vapors were screened with a PID. In addition, helium leak tests were conducted at all locations to ensure samples are representative of sub-surface conditions and not outdoor ambient air. These tests were conducted by encapsulating the sample point with a bucket sealed to the ground surface with hydrated bentonite and filling the encapsulated area with helium. The soil vapor sample port was tested for helium breakthrough with a portable monitoring device before the collection of the soil vapor sample. If greater than 10 percent of the tracer gas was detected in the screening sample, the sample point seal was enhanced and the procedure repeated. At one location (SV-3), the surface was re-sealed prior to sampling due to sub-freezing conditions that were causing breakthrough. The soil vapor samples were collected using a six-liter SUMMA®-type canister with flow valves set to approximately 20 minutes per sample. Flow into the canisters was set to 167 ml/minute, or less than 200 ml/minute as requested by the NYSDOH.

Soil vapor samples were sent to Air Toxics for analyses of VOCs by USEPA Method TO-15.

Groundwater Sampling (February, 2007)

Groundwater grab samples were collected from three of the co-located soil vapor locations (GW-5, GW-6 and GW-8), as well as one existing monitoring well from the Site property (MW-4). The objective of the groundwater sampling was to assess potential concentrations of solvent contamination in shallow groundwater at the soil gas sampling locations to aid in the evaluation of the soil gas results. Each boring was advanced into the groundwater table until refusal. The groundwater table was encountered from 14 to 15 feet below ground surface (bgs).

Groundwater grab samples were collected using direct-push drilling methods, using a ½-inch diameter stainless steel wire wound screen that was exposed to the aquifer, after being pushed to refusal. A peristaltic pump was used for the collection of discrete groundwater samples. A minimum of one tubing volume of water was purged and one set of parameters including temperature, conductivity, pH, and turbidity was collected before sampling. VOC samples were collected at a low purge rate (approximately 100 milliliters per minute) to minimize potential volatilization. Groundwater sampling field data records are included as Attachment B. After

sampling, each open borehole back filled with the native soil and sealed at the ground surface using hydrated bentonite.

Groundwater samples were delivered to Katahdin Analytical Services for analyses for TCL VOCs using USEPA 8260 methods as described in the NYSDEC ASP of June 2000. Off-site laboratory analysis included Category B deliverables.

Sub-Slab and Indoor Air Sampling (April, 2007)

After a preliminary review of the data, the NYSDEC directed MACTEC to conduct sub-slab and indoor air sampling along Route 145 to investigate the potential for vapor migration of contaminants from the groundwater into occupied indoor spaces. Six properties were sampled during this investigation; four sub-slab (SS-001, SS-002, SS-009, SS-011), four basement air (BA-002, BA-008, BA-009, BA-010), two first floor air (FA-002 and FA-009) and three ambient air samples (AA-002, AA-009 and AA-010) were collected from the six properties. The sampling task was conducted, from April 2, 2007 through April 4, 2007. At each structure sampled, MACTEC completed an indoor air survey, and obtained sub-slab soil vapor and indoor air samples, as agreed upon with the homeowner and as deemed appropriate by the NYSDEC and the New York State Department of Health (NYSDOH). For the purposes of this report, structures have been identified herein as V-1, V-2 and V-8 through V-11.

Indoor Air Survey. Indoor air surveys and product inventories were conducted at each business or residence sampled using the modified NYSDOH "Indoor Air Quality Questionnaire and Building Inventory" (inventory form) form. A parts per billion (ppb) MiniRae PID was used to scan inventoried items that may have been off-gassing VOCs. VOCs that were listed on the household container and were also included on the air sample analytical target compound list were noted on the inventory form, along with any PID readings. Completed inventory forms are included as Attachment C.

Sub-Slab Soil Vapor and Indoor Air Sampling. The sub-slab soil vapor samples were collected using the following procedure. A one-inch diameter hole was drilled two inches into the building's

concrete floor using an electric hammer drill. The hole was continued with a 3/8-inch drill bit, through the building slab to a depth of approximately three-inches below the slab. Drill cuttings and dust from the area were removed. A ¼-inch piece of Teflon tubing was inserted through a one-inch diameter rubber stopper, and placed into the hole, so that the bottom of the tubing was below the slab floor and the stopper rested inside the one-inch hole, forming a seal. The stopper was then covered flush to the slab surface with bees wax to provide an impenetrable seal for the migration of indoor air into the subslab. One 60 cubic centimeter (cc) volume of air was purged from the tubing with a polyethylene syringe. The syringe was capped and the air released outside the building as to not interfere with the indoor air sample collection. A 6-liter SUMMA®-type canister with a 24-hour flow valve was then connected to the tubing with Swagelok® fittings.

Indoor air samples were collected in 6-liter SUMMA®-type canisters from the basement level, in the vicinity of the sub-slab vapor sample collection points. Samples were collected from approximately three to five feet above the floor level and set up with 24-hour flow valves.

If the basement was not finished as a living space, then a second indoor air sample was collected from the first floor level (i.e. one sample was collected from the first floor of occupied living space in the home, when applicable). The second sample was also collected from approximately three to five feet above the floor level, and set up with 24-hour flow valves.

Ambient air samples were collected in 6-liter SUMMA[®]-type canisters from the vicinity of the homes being sampled for indoor air and sub-slab vapor VOC contamination. Samples were collected from approximately three to five feet above ground surface. Ambient air samples were set up with 24-hour flow valves.

Once the sub-slab vapor sample canisters, indoor air sample canisters, and exterior ambient air canister had been set up with 24-hr flow valves for an individual location, the valves from all containers were opened. The time of sample collection and canister vacuum (in inches Hg) were recorded in the field log book. Representative photos are included as Attachment D. Weather data from the area, as provided by an internet site, is included as Attachment E.

Approximately 23 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted in the field log book. The samples were shipped to Air Toxics laboratories for analyses of VOCs via USEPA Method TO-15. Laboratory analysis included Category B deliverables.

Upon completion of sub-slab sampling, the tubing and stopper were removed from the building floor and the holes were filled completely with a fast drying hydraulic concrete (i.e. Quickcrete).

Results

Upon receipt of the analytical laboratory data, a Data Usability Summary Report (DUSR) was completed. Based on chemist review, MACTEC determined that the laboratory data met the project specific criteria for data quality and data use. The DUSR and validated Form 1's are presented as Attachment F. Summaries of detected compounds are included in Tables 1 through 3.

Soil Vapor Sample Results. Table 1 shows a summary of compounds detected in the soil vapor samples. VOCs detected in soil vapor samples include chlorinated VOCs, ketones, and aromatics. There are no standards or guidance values for exterior soil gas samples, only sub-slab soil gas samples. The only compounds for which sub-slab draft guidance numbers have been calculated are PCE, TCE, and 1,1,1-TCA. The highest concentrations of 1,1,1-TCA (160 EJ μ g/m³), PCE (54 μ g/m³) and TCE (1.4 μ g/m³) detected were below the guidance concentration requiring mitigation (1000 μ g/m³ for 1,1,1-TCA and PCE; 250 μ g/m³ for TCE), or even monitoring (>100 μ g/m³ and >50 μ g/m³, respectively).

Groundwater Sample Results. A summary of VOCs detected in groundwater samples collected is presented in Table 2. 1,1,1-TCA was detected in all four groundwater samples collected from the Site at concentrations ranging from 5 μ g/L (GW-5) to 10 μ g/L (GW-6 and MW-4). 1,1,1-TCA concentrations in groundwater exceeded the NYS Class GA groundwater standard for 1,1,1-TCA of 5 μ g/L at three of the four locations (see Table 2).

1,1,1 DCA was also detected at concentrations (6 μ g/L) in exceedance of standards, criteria or guidelines (SCGs) from a groundwater sample collected at GW-006.

Other VOCs detected in groundwater samples, but at concentrations below applicable SCGs, include: 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, acetone, PCE and TCE.

As mentioned earlier, there is an active groundwater extraction and treatment system at the Site.

Sub-Slab Soil Vapor and Indoor Air Sample Results. A summary of VOCs detected in sub-slab soil vapor and indoor air samples collected is presented in Table 3. The only VOCs for which the NYSDOH has promulgated guidance values for soil vapor are TCE, PCE, and 1,1,1-TCA. These guidance values are only applicable when evaluating sub-slab soil vapor samples in relation to indoor air concentrations, and not exterior soil vapor samples.

The primary contaminant in area groundwater, 1,1,1-TCA, was detected during this investigation at the highest concentration (220 micrograms per meter cubed $[\mu g/m^3]$) in sub-slab sample SS-009. The highest concentration of 1,1,1-TCA detected in indoor air was collected from the same structure (Home V-9) at 3.3 $\mu g/m^3$ (BA-009 collected from the basement), compared to an average New York State background indoor air concentration range of less than <0.25 to 1.4 $\mu g/m^3$ (NYSDOH, 2005). The first floor air sample for Home V-9 also had a detection for 1,1,1-TCA of 1.1 $\mu g/m^3$.

The second highest concentration of 1,1,1-TCA (1.7 $\mu g/m^3$) in sub-slab samples was detected in sample SS-001. 1,1,1-TCA was also detected in trace concentrations from sub-slab soil vapor samples SS-002 and SS-011 (1.2 $\mu g/m^3$ and 0.64 $\mu g/m^3$, respectively).

PCE and TCE were also detected in soil vapor sample SS-009 at concentrations (PCE of 1.6 J $\mu g/m^3$ and TCE of 25 $\mu g/m^3$) which were below the guidance concentration requiring mitigation (1000 $\mu g/m^3$ and 250 $\mu g/m^3$, respectively), or even monitoring (>100 $\mu g/m^3$ and >50 $\mu g/m^3$, respectively). Very low levels of TCE were also detected at SS-011 (0.18 $\mu g/m^3$).

Conclusions

In summary, all concentrations detected are below concentrations that require monitoring or mitigation, with the exception of the sub-slab and indoor air samples collected at Home V-9. This is based on comparison to the Soil Vapor/Indoor Air Matrices in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006). Results for those VOCs for which NYSDOH has promulgated guidance (1,1,1-TCA, PCE, and TCE) and actions recommended based on the analytical results are shown in Table 4. Based on conversations with NYSDOH, MACTEC has provided the addresses of the structures that were sampled under separate cover to NYSDEC.

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

Sincerely,

MACTEC Engineering and Consulting, P.C.

John W. Peterson

Project Manager

Eric C. Sandin

Site Manager

Enclosures:

Soil Vapor Implant Diagrams

Groundwater Grab Sample FDRs

Indoor Air Quality Questionnaire Building Inventory Forms

Site Photographs

Site Weather

Data Usability Summary Report and Laboratory Data

REFERENCES

- ABB Environmental Services, 1995. *Quality Assurance Program Plan*. Prepared for the New York State Department of Environmental Conservation, Albany, New York. June 1995.
- MACTEC Engineering and Consulting, Inc. P.C., 2005. *Program Health and Safety Plan*. Prepared for New York State Department of Environmental Conservation, Albany, New York. 2005.
- New York State Department of Health (NYSDOH), 2005. "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", Final, October 2006

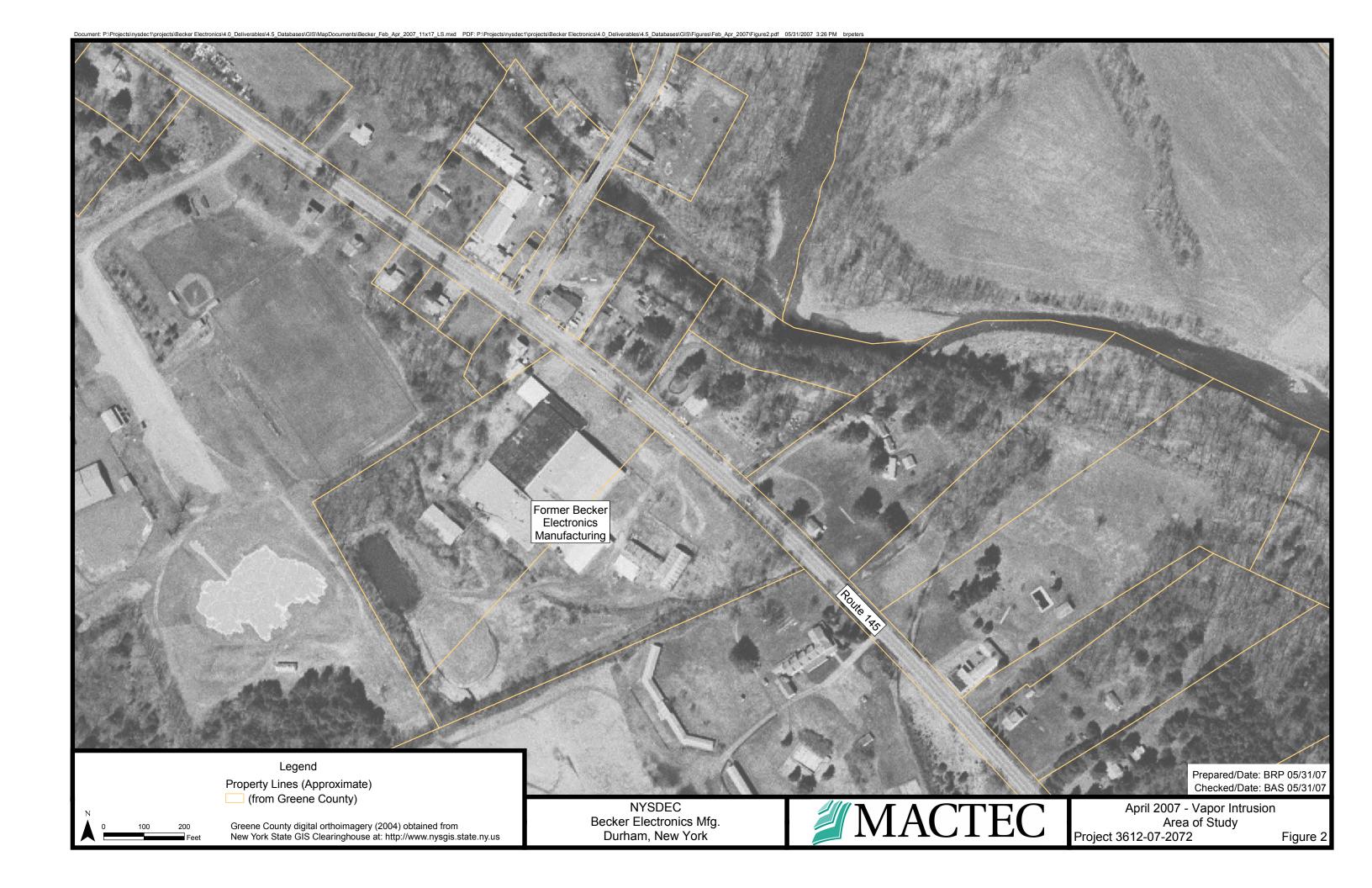


Table 1: Soil Vapor VOC Results

Location	GV	V-001	GV	7-003	GV	V-005	GV	V-006	GV	-008
Sample Date	2/7	2/7/2007		2/7/2007		/2007	2/7	/2007	2/7/	2007
Sample ID	BEG	V00110	BEG	BEGV00305		V00509	BEG	V00605	BEG	V00807
Qc Code	,	FS		FS	FS		FS		FS	
Parameter	Result	Qualifier								
1,1,1-Trichloroethane	120		0.36	UJ	16	J	3.5		160	EJ
1,1-Dichloroethane	0.94		0.54	UJ	3.2	J	0.55	U	14	
1,1-Dichloroethene	3.8		0.53	UJ	1.1	J	0.54	U	11	
2-Butanone	20	J	9.8	J	6.2	J	5.6		5.4	
4-Methyl-2-pentanone	3.8		0.55	UJ	0.55	UJ	0.56	U	0.59	U
Benzene	17		10	J	2.2	J	17		5.5	
Butadiene, 1,3-	2.7		0.3	UJ	0.88	J	2.7		0.32	U
Chloroform	1.5		0.65	J	0.83	J	0.66	U	1.2	
Cis-1,2-Dichloroethene	0.59	U	0.53	UJ	0.62	J	0.54	U	0.57	U
Cyclohexane	2.5		0.6	J	0.46	UJ	1.6		2.3	
Ethyl benzene	4.8		0.58	UJ	0.58	UJ	1		0.62	U
Heptane	2.6		0.94	J	1.4	J	3.3		1.3	
Hexane	4.5		2.3	J	3.7	J	6		1.8	
Methyl Tertbutyl Ether	4	J	3.2	J	0.48	UJ	0.79	J	1.4	J
o-Xylene	2.8		0.58	UJ	0.58	UJ	0.73		0.62	U
Tetrachloroethene	54		1.8	J	2.5	J	12		5.6	
Toluene	96		7	J	5.1	J	33		19	
Trichloroethene	0.76		0.19	J	0.99	J	0.17		1.4	
Xylene, m/p	11		0.69	J	1.4	J	2.5		1.3	

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method TO-15.

Results in microgram per cubic meter (µg/m³)

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

E = Result exceeded the calibration curve of the instrument

Table 2: Groundwater VOC Results

Sample	Location Sample Date Sample ID to Depth (ft bgs) Oc Code	2/6/2007 BEMW004 27.0 - 28.0**	GW-005 2/6/2007 BEGW005 8.0 - 12.0 FS	GW-006 2/6/2007 BEGW006 10.0 - 14.0 FS	GW-008 2/5/2007 BEGW008 8.0 - 12.0 FS	GW-008 2/5/2007 BEGW008DUP 8.0 - 12.0 FD
Parameter	Criteria	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier
1,1,1-Trichloroethane	5*	10	5	10	7	7
1,1-Dichloroethane	5*	2	5	6	4	4
1,1-Dichloroethene	5*	2	1 J	1 U	1 U	0.7 J
1,2-Dichloroethene (total)	NA	0.8 J	3	2 U	2 U	2 U
Acetone	50	8	5 U	10	5 U	9
Cis-1,2-Dichloroethene	5*	0.8 J	3	1 U	1 U	1 U
Tetrachloroethene	5*	1 U	0.7 J	1 U	1 U	1 U
Trichloroethene	5*	2	4	1 U	0.9 J	0.8 J

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method SW846 8260B.

Results in microgram per liter (µg/L)

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1,

Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC, 1998).

Highlighted results exceed associated criteria

^{*}Criteria listed are New York State Groundwater Standards.

^{**} Well specifics not known. Water level at 15 ft; sample collected within casing from 27 ft bgs.

Table 3: Indoor Air VOC Results

Location Sample Date Sample ID Task Name Qc Code	te 4/3/2007 D 420007SS001 Task 2		AA-002 4/2/2007 420007AA002 Task 2 FS		SS-002 4/2/2007 420007SS002 Task 2 FS		BA-002 4/2/2007 420007BA002 Task 2 FS Result Qualifier		BA-002 4/2/2007 420007BA002-DUF Task 2 FD Result Qualifier		Task 2 FS	
Parameter	Result	Qualifier	Result	Qualifier	Result	Qualifier		Qualifier		_	Result	Qualifier
1,1,1-Trichloroethane	1.7		0.6		1.2		0.41	U	0.47	U	0.41	U
1,1-Dichloroethane	0.55	U	0.58	U	0.79	U	0.62	U	0.69	U	0.62	U
1,1-Dichloroethene	0.54	U	0.57	U	0.78	U	0.6	U	0.68	U	0.6	U
1,2,4-Trimethylbenzene	0.67	U	0.82		0.96	U	1.7		1.4		0.84	
2-Butanone	0.4	U	5.5		23		2.4	J	1.4	J	0.94	
4-Ethyltoluene	0.67	U	0.71	U	0.96	U	1.6		1.6		0.99	
Benzene	0.67		1.2		2.9		2		1.8		1.9	
Chloroform	4.8		0.7	U	39		0.74	U	0.83	U	3.2	
Chloromethane	0.28	U	0.76		0.4	U	0.73		0.61		0.92	
Cyclohexane	0.47	U	1.3		0.67	U	0.52	U	0.59	U	0.52	U
Ethyl benzene	0.59	U	0.72		0.85	U	1.8		1.5		0.84	
Heptane	0.56	U	0.59		0.88		0.96		0.73		0.69	
Hexane	0.48	U	0.65		0.69	U	1.2		0.91		0.78	
o-Xylene	0.59	U	0.62	U	0.85	U	1.7		1.6		0.91	
Tetrachloroethene	0.46	U	1.2		0.66	U	0.52	U	0.58	U	0.52	U
Toluene	1.6		6.1		2.4		12		10		7.2	
Trichloroethene	0.15	U	0.15	U	0.21	U	0.16	U	0.18	U	0.16	U
Xylene, m/p	0.88		1.6		0.99		5.6		4.8		2.8	

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method TO-15. Results in microgram per cubic meter $(\mu g/m^3)$

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated value

Table 3: Indoor Air VOC Results

Location Sample Date Sample II Task Name Qc Code	4/20007F.	-002 /2007 A002-DUP isk 2 FD	4/3/ 42000′ Ta	BA-008 4/3/2007 420007BA008 Task 2 FS		AA-009 4/3/2007 420007AA009 Task 2 FS		-009 /2007 7SS009 sk 2	BA-009 4/3/2007 420007BA009 Task 2 FS Result Qualifier		4/3/2 420007 Tas	-009 2007 7FA009 sk 2
Parameter	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.42		0.46		0.44		220		3.3		1.1	
1,1-Dichloroethane	0.63	U	0.68	U	0.65	U	31		0.64	U	0.81	U
1,1-Dichloroethene	0.61	U	0.67	U	0.64	U	4.3		0.63	U	0.8	U
1,2,4-Trimethylbenzene	1		0.82	U	0.79	U	0.81	U	0.78	U	0.99	U
2-Butanone	1.3		0.5	U	8.4		1.7		0.72		2.2	
4-Ethyltoluene	1		0.82	U	0.79	U	0.81	U	0.78	U	0.99	U
Benzene	2		0.54	U	0.51	U	1.4		0.7		1.2	
Chloroform	2.6		0.82	U	0.79	U	5.6		0.77	U	0.98	U
Chloromethane	0.85		0.85		0.96		0.34	U	0.63		1.2	
Cyclohexane	0.53	U	0.58	U	0.55	U	0.56	U	0.54	U	0.69	U
Ethyl benzene	0.96		0.73	U	0.7	U	0.71	U	0.69	U	0.87	U
Heptane	0.79		0.69	U	0.66	U	0.83		0.65	U	0.82	U
Hexane	0.96		0.59	U	0.57	U	0.71		0.56	U	0.71	U
o-Xylene	0.9		0.73	U	0.7	U	0.71	U	0.69	U	0.87	U
Tetrachloroethene	0.52	U	0.57	U	0.55	U	1.6		0.54	U	0.68	U
Toluene	7.6		0.63	U	1.1		3.6		1.7		5.4	
Trichloroethene	0.17	U	0.18	U	0.17	U	25		0.27		0.22	U
Xylene, m/p	2.9		0.73	U	0.7	U	1.4		0.75		0.84	J

Only Detected Compounds shown. Samples analyzed for VOCs by USEPA Method TO-15. Results in microgram per cubic meter $(\mu g/m^3)$

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated value

Table 3: Indoor Air VOC Results

	Location Sample Date Sample ID Task Name Qc Code	4/3/ 42000′ Ta	-010 2007 7AA010 sk 2	4/3/ 42000' Ta	-010 2007 7BA010 sk 2	SS-011 4/2/2007 420007SS011 Task 2 FS		
Parameter		Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane		0.39	U	0.39	U	0.64		
1,1-Dichloroethane		0.58	U	0.58	U	0.62	U	
1,1-Dichloroethene		0.57	U	0.57	U	0.6	U	
1,2,4-Trimethylbenzene		0.71	U	0.71	U	0.75	U	
2-Butanone		12		1.3		35		
4-Ethyltoluene		0.71	U	0.71	U	0.75	U	
Benzene		0.75		0.8		41		
Chloroform		0.7	U	0.7	U	0.74	U	
Chloromethane		1.6		1		0.62		
Cyclohexane		0.5	U	0.5	U	37		
Ethyl benzene		0.62	U	0.62	U	1.3		
Heptane		0.59	U	0.59	U	58		
Hexane		0.51	U	0.51	U	120		
o-Xylene		0.62	U	0.62	U	0.66	U	
Tetrachloroethene		0.49	U	0.49	U	0.52	U	
Toluene		1.6		2		19		
Trichloroethene		0.86		0.15	U	0.18		
Xylene, m/p		0.77		0.62	U	1.3		

Only Detected Compounds shown.

Samples analyzed for VOCs by USEPA Method TO-15.

Results in microgram per cubic meter (µg/m³)

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated value

Location ID	Sample Type	1,1,1-TCA	PCE	TCE	NYSDOH Guidance
V-1	SS	1.7	0.46 U	0.15 U	NFA
	AA	0.6	1.2	0.15 U	N/A
V-2	SS	1.2	0.66 U	0.21U	NFA
V - Z	BA	0.41 U	0.52 U	0.16 U	NFA
	FA	0.41 U	0.52 U	0.16 U	NFA
V-8	BA	0.46 U	0.57 U	0.18 U	NFA
	AA	0.44 U	0.55 U	0.17 U	N/A
V-9	SS	220	1.6	25	Monitor/Mitigate
V -9	BA	3.3	0.54 U	0.27	Monitor/Mitigate
	FA	1.1	0.68 U	0.22 U	Monitor/Mitigate
V-10	AA	0.39 U	0.49 U	0.86	NFA
V-10	BA	0.39 U	0.49 U	0.15 U	NFA
V-11	SS	0.64	0.52 U	0.18	NFA

Results in microgram per cubic meter (μg/m³) Samples analyzed for VOCs by USEPA Method TO-15.

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

PCE - Tetrachloroethene

TCE - Trichloroethene

NFA - No Further Action

Sample Type = Sample location name (First two Digits)

AA = Ambient Air

SV = Soil Vapor

BA = Basement Air

FA = First Floor Air

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

Results in **BOLD** exceed the sub-slab

guidance criteria for remediation (250

μg/m3 for trichloroethene and 1000

μg/m3 for tetrachloroethene and 1,1,1-

tetrachloroethane) or the guidance

ATTACHMENT A:

SOIL VAPOR IMPLANT DIAGRAMS

				Soi	l Vapor Im	plant Com	pletion Log			Boring ID:
Proj	ect No.:	3612072	2072-02	2 P	Project: BE	CKER ELEC	TRONICS Checked	Ву:	ECS	SV-1
	nt Name:		NYSE	EC L	ogged By:	BAS	Protection Level:		ound Eleva	
Drill	ing Contra	actor: ER DRILLIN	C VND	TEQTI	NG - ADT	Drilling Met	hod: DIRI	ECT PUSH	Driller's	Name: MARTY BACHNOR
Inst	allation Da		G AND		ole Date/Time	<u> </u> 9:	Start Time:	End Time:		Rig Type:
		2, 2007 @ 10):30	·	2/07/07		12:19	13:05	;	TRUCK MOUNT 5400
He E	Breakthro	ugh %:			none		Initial He % 100	Final He %:	96	Auger Size: 2 1/4"
Depth (feet)	Recovery	Blow Counts	PID	Graphic Log	Soil Vapor Diagram	Vapor Point Construction Notes	Overburden Drillin	g Notes:		
1			<1			0N Industrial Sand Pack; 0 - 7.0 bgs	Located between Supe 0 - 0.5 Top soil with a 0.5 - 0.8 Crushed gra 0.8 - 1.1 Cobbles - re-	grass roots vel	Ū	d Route 145
3	3.6 / 4		<1			3/8" OD LDPE Tubing	1.1 - 2.5 Brown silty 2.5 - 4.0 Brown sand, 4.0 - 8.0 Brown silty PID <1.0 (background 8.0 - 10.0 Gravel, roc	med to coarse, we sandy gravel, dam)	ell graded, d np, coarse sa	nd GW
5			<1			Bentonite Seal; 7.0 to 9.0 ft bgd				- - - - -
6	3.4 / 4		<1				Soil vapor san	nnla collected		- - - - -
8			<1			Glass Beads; 9.0 to 10.0 / Stainless Steel Screen; 9.4 to 9.9	BEGV00110	uple collected: 2/7/2007 at 1230 hour er grab sample collecte		ore water table)
10	1111					Threaded SS Point; 9.9 to 10 10.0	BOB : 10.0 bgs			- - -
	//M	ACTE	C							1 of 1 SV-1

				So	oil Vapo	r Im	plant Com	pletion Log			Boring ID:
Proj	ect No.:	361207	2072-02		Project:	BE	CKER ELEC	TRONICS Checked E	Зу:	ECS	SV-2
	nt Name:		NYSD	EC	Logged I	Ву:	BAS	Protection Level:	D G r	ound Eleva	ition:
Drill	ing Contr						Drilling Met	hod: DIRE	CT PUSH	Driller's	
_		ER DRILLIN	G AND					T=	·		MARTY BACHNOR
Inst	allation Da		100	Sam	ple Date/				End Time:		Rig Type:
⊔	FEB. Breakthro	2, 2007 @ 1 ⁻	100		not applic	No		NA Initial He %NA	NA Final He NA		TRUCK MOUNT 5400 Auger Size: 2 1/4"
пе	oreaktiii O	ugii 76.			пот арри	Jabie	;	IIIIIIIII NE 7NA	Fillal He INA	1	Auger Size. 2 1/4
Depth (feet)	Recovery	Blow Counts	PID	Graphic Log	Soil Vap Diagra		Vapor Point Construction Notes	Overburden Drilling	g Notes:		
											_
											_
											_
											_
1								No Soil Vapor	Sample Point Insta	alled at this Loc	ation
											_
								Attempted thre	e separate borings no	ear southeast cor	ner of Darby's
								Irish Pub. Enc	ountered refusal at 2	.1 feet below gra	ıde.
											_
2								Gravel, cobbles	s, and weathered rock	k. Building app	ears
								to be founded of	on bedrock.		_
											_
											_
											_
3											_
											_
											_
											_
											_
											_
4											_
								No Samples co	llected.		_
											_
											_
											_
											_
5					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						_
											_
											_
	//M	ACTE	C								1 of 1 SV-2

				Soi	l Vapor Im	plant Com	pletion Log			Boring ID:
Proj	ect No.:	3612072	2072-02	F	Project: BE	CKER ELEC	TRONICS Checked	I Ву:	ECS	SV-3
	nt Name:		NYSDI	EC I	ogged By:	BAS	Protection Level:		ound Eleva	
Drill	ing Contr	actor: ER DRILLING	C AND I	TEST	ING - ADT	Drilling Met	hod: DIF	RECT PUSH	Driller's	Name: MARTY BACHNOR
Inst	allation Da				ole Date/Time	<u> </u> 	Start Time:	End Time:	I F	Rig Type:
		2, 2007 @ 10			FEB 7, 200		15:35	16:20		TRUCK MOUNT 5400
He E	3reakthro	ugh %:		83%,	50.7% then 1	0.9%	Initial He %:	Final He %:	,	Auger Size: 2 1/4"
Depth (feet)	Recovery	Blow Counts		Graphic Log	Soil Vapor	Vapor Point Construction Notes	Overburden Drilli	ng Notes:		
						ON Industrial Sand Pack; 0 - 2.0	0 - 0.5 : Top soil wit			_
1							0.5 - 5.2 : Brown to s damp, very dense, fr		ed silty clay	with fine gravel, dry to
										-
2	2.2/4.0					3/8" OD LDPE Tubing				-
										_
										_
						Bentonite Seal;				=
3						2.0 to 4.1	Made 4 atter	npts top penetrate to wa	ter table. Enco	untered refusal
							with geoprbe	e at depths between 1.2 a	and 5.3 feet bel	ow grade.
						Glass Beads:	Temporary s	oil vapor point installed	at deepest loca	tions.
\vdash						5.2 to 4.1	No groundw	ater grab sample could b	oe collected.	=
\vdash						/				=
4							Sample Coll	ected:		=
					**	ľ	1	5 2/7/2007 at 1550 hour	s	
						Gr. i. i				
						Stainless Steel Screen;				-
\vdash						4.6 to 5.1				=
5					<u> </u>	Threaded SS				=
					<u>¥</u>	Point; 5.1 to				=
						5.2	BOB : 5.2' bgs			=
					terereverereserer					
	//M	ACTE	С							1 of 1 SV-3

				Sc	oil Vapor Im	plant Com	pletion Log			Boring ID:
Pro	ject No.:	361207	2072-02			CKER ELEC	TRONICS Checke	d By:	ECS	SV-4
Dril		ER DRILLIN		TES		Drilling Met		RECT PUSH	Driller	evation: 's Name: MARTY BACHNOR
Inst	allation D	ate/Time: 2, 2007 @ 14		Sam	nple Date/Time		Start Time: NA	End Time:		Rig Type: TRUCK MOUNT 5400
Не	Breakthro		1.00	r	no vapor samp		Initial He 9NA	Final He %:	NA	Auger Size: 2 1/4"
Depth (feet)	Recovery	Blow Counts		Graphic Log	Soil Vapor Diagram	Vapor Point Construction Notes	Overburden Drill	ing Notes:		
1						3/8" OD LDPE Tubing	Located near northw 0 - 4.0 Brown, silty Made three attmepts	clay, little fine gra	avel, moist	/wet, soft, ML
2					•	Bentonite Seal; 0 to 3.6 ft bgs	Trade unce attinopia	to penduae deep	or. Beepes	
4					<u> </u>	Glass Beads; 3.6 to 4.6 Stainless Steel Screen; 4 to 4.5				- - - - -
6						Threaded SS Point; 4.5 to 4.6	BEGW004	er grab sample collecte 2/07/2007 or implant as shown by		
8							(due to clay	_	as son did not	
10	10 10 11	АСТЕ					BOB: 4.6 bgs			1 of 1
										SV-4

				Soi	il Va	por Im	plant Com	pletion Log			Boring ID:
Proj	ect No.:	3612072	2072-02	I	Proje	ct: BE	CKER ELEC	TRONICS Checked I	Зу:	ECS	SV-5
	nt Name: ing Contr	actor:	NYSDE	C	Logg	ed By:	BAS Drilling Met	Protection Level:	D G CT PUSH	round Elev Driller's	
ווווט	-	ER DRILLING	G AND T	EST	ING -	ADT	Drilling Met	ilou. Dike	CIPUSH	Dilliers	MARTY BACHNOR
Inst	allation D	ate/Time: B 6, 2007 @		Sam	•	ate/Time	e: 1345 hrs	Start Time: 13:32	End Time: 14:2	0.4	Rig Type: TRUCK MOUNT 5400
He E	Breakthro					none	1343 1115		Final He %:		Auger Size: 2 1/4"
Depth (feet)	Recovery	Blow Counts		Graphic Log		Vapor agram	Vapor Point Construction Notes	Overburden Drillin	g Notes:		
1 2 3 4 5 6 7 8 9 10 11 12 13	3.4 / 4 2.7 / 4 3.1 / 4				12221		ON Industrial Sand Pack; 0 - 6 .0 bgs 3/8" OD LDPE Tubing Bentonite Seal; 6 to 8 ft bgs Glass Beads; 8.1 to 9.5 ft Stainless Steel Screen; 8.9 to 9.4 ft bgs Threaded SS Point; 9.5 to 9.6	BEGW005 2/6 Soil vapor sam	d gravel with roght reddish brogravelly silt, nody silt, pporly gvelly silt, moist y gravel with sovelly silt, wet Ct, peaty texture, the sand, stratified gravel, well gramedium to coar attified, wet, v s	oots. Frozen wn silty grav n-plastic Gi graded SM , well gradec ome sand, we iM well drained d, poorly gra ded, dense C rse with som tiff, OL	ground vel GM M d, dense GM ell graded GM d, friable OL aded ML GW
15	M/M	ACTE	С		_88888	<u> </u>	<u> </u>				1 of 1 SV-5

			:	Soil Vapor	lm	plant Com	pletion Log			Boring ID:
Proj	ject No.:	3612072	2072-02	Project:	ВЕ	CKER ELEC	TRONICS Checked I	Ву:	ECS	SV-6
	nt Name:		NYSDE	Logged B	y:		Protection Level:		Ground Elev	
Drill	ling Contr AQUIF		G AND TE	STING - ADT	Γ	Drilling Met	noa: Diki	ECT PUSH	Driller's	MARTY BACHNOR
Inst	allation Da			ample Date/1			Start Time:	End Time:		Rig Type:
He F	FEB (Breakthro	6, 2007 @ 12 u ah % :	217	2/7/20 none)07	1430 hrs	14:29 Initial He % 100	Final He %	5:15 5· 94	TRUCK MOUNT 5400 Auger Size: 2 1/4"
Depth (feet)	Recovery	Blow Counts		Oraphic Diagram		Vapor Point Construction Notes	Overburden Drilling		. 7-	Augel 6/20. 2 1/4
2						0N Industrial Sand Pack; 0 - 2.0 bgs	building. Note that due wwere installed. Only	to the depth the shallow in from 10.5 to	to water (12.4 nstallation is do 11 ft bgs) did r	grass to east of treatment ft bgs), two vapor points epicted on this log since the not yield a vapor sample.
4 5				4		Tubing Bentonite Seal; 2.0 to 4.5 ft bgs	0.8 - 1.4 Lt brown silty 1.4 - 3.2 redbrown silty 3.2 - 3.8 gravel 3.8 - 4.0 gray to orange 4.0 - 7 Orangebrown s 7.0 - 8.5 Orange brown	gravel, dry, fine sand, poergray clay, strilly sand with	dense orrly graded, dr ratified, dry, m n little fine grav	stiff, friable CLvel, damp GM
7 8						Glass Beads; 4.5 to 5.5 Stainless Steel Screen; 4.9 to 5.4	8.5 - 9.2 silt-sand-grav 9.2 - 12.4 Brown clay-s 12.4 - 13.8 silty coarse 13.8 - 15.4 brown clay	silt-sand, v. d sand, poorly	lense, ML graded SP	- - - -
10	4.0 / 4.0					Threaded SS Point; 5.4 to 5.5	Groundwater g Soil vapor sam BEGV00605 2	ple collected:	colelcted (no water	at refusal) -
12 13 14							BOB : 15.4 bgs			- - - - - -
	11111	ACTE	С	I	WW		L			1 of 1 SV-6

	Soil Vapor Implant Completion Log Boring ID:										
Project No.: 3612072072-02 Project: BECKER ELEC				CKER ELEC	TRONICS Checked	I Ву:	ECS	SV-7			
				EC	Logged By: BAS Protection Level: D Ground Elevat						
Drilli	ng Contra	actor: ER DRILLIN	C VND -	regi	TING - ADT	Drilling Met	hod: DIF	RECT PUSH	Driller's	Name: MARTY BACHNOR	
Insta	Ilation Da				ple Date/Tim	e:	Start Time:	End Time:		Rig Type:	
		5/07 1413 hrs			no	ne	NA	N/	A	TRUCK MOUNT 5400	
He B	reakthrou	ıgh %:			no test		Initial He 9NA	Final He %N	A	Auger Size: 2 1/4"	
Depth (feet)	Recovery	Blow Counts	PID	Graphic Log	Soil Vapor Diagram	Vapor Point Construction Notes	struction				
			<u> </u>			ONI In Justical	At source area (remove	ved building) and	current GW	rs _	
1			<1			0N Industrial Sand Pack; 0	At source area (remo	ved building) and	current G W		
<u> </u>						- 6.5 bgs	0 - 02 grass and sod l		1 CMEH	_	
2	4.0 / 4.0						6.0 - 8.0 - brown fine sandy silt, damp, v stiff SM 8.0 - 8.5 olivebrown sandy silt 8.5 - 10.8 sandy silt, v dense, trace fine gravel, firable SM				
3						3/8" OD LDPE					
			8			Tubing					
4											
						Bentonite Seal; 6.5 to 8.5 ft					
5						bgs					
	27/40		10							-	
6	3.7 / 4.0		13			Glass Beads; 8.5 to 9.5				-	
7										_	
						Stainless				_	
8						Steel Screen; 8.9 to 9.4				_	
	4 / 2.8		25							_	
9			33 22		111111	Threaded SS					
10			16		<u>*</u>	Point; 9.4 to 9.5	Ĭ.	ater sample or soil va tight to yield water or		ctea	
			10				Siit was too		- upor	-	
11										-	
										_	
12										_	
12										_	
13										_	
14										-	
							BOB : 10.8 bgs				
15										-	
	M	ACTE	C							1 of 1 SV-7	

	Soil Vapor Implant Completion Log Boring ID:										
Project No.: 3612072072-02 Project: BECKER E				CKER ELEC	CTRONICS Checked By: ECS			SV-8			
Client Name: NYSDEC Logged By:				BAS	Protection Level:		Ground Elev				
Drill	ing Contr	actor: ER DRILLIN	C AND TE	CTINI	G - ADT	Drilling Met	hod: DIRE	CT PUSH	Driller's	MARTY BACHNOR	
Insta	allation Da				Date/Time	<u> </u> 	Start Time:	End Time:		Rig Type:	
		5, 2007 @ 14	1:25		2/7/200	7 1315	13:11 13:57 TRUCK MOUNT 5			TRUCK MOUNT 5400	
He E	Breakthro	ugh %:			none		Initial He 9 100	Final He %:	: 0.00	Auger Size: 2 1/4"	
Oepth (feet)	Recovery	Blow Counts		(0	Soil Vapor Diagram	·					
1						0N Industrial Sand Pack; 0 - 4.0 bgs	Located edge of gravel 0 - 0.2 Top soil with g	rass roots		(Route 145)	
2	3.5 / 4						0.2 - 1.0 Light gray sa 1.0 - 3.1 olive brown to			ravel, well graded, dry, GW	
3						3/8" OD LDPE Tubing	3.1 - 6.2 Lt orange brown sand, med to coarse, loose, SP 6.2 - 6.4 cobbles 6.4 - 7.7 Brown silty sand with some gravel, damp, dense 7.7 - 8.5 Brown silty sand and gravel, wet.				
4						Bentonite Seal;					
5						4.0 to 6.0 ft bgs	8.5 - 10.6 Light orang 10.6 - 12.0 Light brow				
6	3.1 / 4					Glass Beads;	graded 12.0 - 12.7 Light brown silty gravelly till, damp, dense				
7						6.0 to 7.1				_	
ŕ					Z	Stainless				-	
8						Steel Screen; 6.5 to 7.0				_	
9	3.0 / 4					Threaded SS	Garage Land	nob committee P	J.	-	
10						Point; 7 to 7.1	_	rab sample collec EGW008-DUP @		-	
							Soil vapor sam			=	
11							BEGV00807 2	2/7/2007 at 1315 l	hours	_	
										-	
12	0.7 / 0.7									=	
										=	
										=	
										_	
							BOB : 12.7 bgs			_	
	//M	ACTE	C							1 of 1 SV-8	

ATTACHMENT B:

GROUNDWATER GRAB FDRS

	GROUNDWATER SAMPLE FIELD DATA RECORD Project: BULLIV ELLIPTIS Site: BULKER	
ł	Project: BULL TO 72072 Site: BULLET Project Number: 36 12072072 Date: 02/06/07	
	Time: Start: 1200 End: 156	
5	Sample Location ID: BEMWOOU Signature of Sampler	
	Well DepthFtMeasuredTop of Well Well Riser Stick-upFt. ProtectiveFtFtFtFtFtFt	
Data	Protective Ft. Casing	
Water Level/Well Data	Depth to WaterFt. Well Material: Well Locked?: Well Dia2 inch Water Level Equip. Used: 4 inch Elect. Cond. Probe 6 inch Float Activated Press. Transducer	1
Wate	Height of Water Golumn X65 Gal/Ft. (2 in.) = Gal/Vol. Well Integrity: Yes No Prot. Casing Secure Concrete Collar Intact Other Other	
ation	Purging/Sampling Equipment Used: Decontamination Fluids Used:	
Equipment Documentation	(If Used For) Purging Sampling Equipment ID (All That Apply at Location) Peristaltic Pump Methanol (100%) Submersible Pump 25% Methanol/75% ASTM Type II water Deionized Water Deionized Water Liquinox Solution Teflon/Silicon Tubing Hexane Airlift Hand Pump In-line Filter None	
ы	Press/Vac Filter EUSTEW Well.	
Field Analysis Data	PID: Ambient Air ppm Well Mouth ppm Purge Data Collected In-line Turbid Clear Cloudy Purge Data @ 12 Gal. @ 12 Gal. @ 12 Gal. @ 12 Gal. @ 13 Gal. @ 14 Gal. 9 Temperature, Deg. C pH, units Specific Conductivity (µmhos/cm) 311 320 317 324 330 Turbidity (NTUS) 321 1/3 916 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	21 152 0 9.1 9 9.1 2 0.2
ts	Analytical Parameter ✓ If Sample Preservation Volume Sample Bottle ILot Nos. Collected Method Required	
Sample Collection Requirements (~1f Required at this Location)	✓ VOCs 4°C 2x40 ml SVOCs 4°C 2x1 liter AG Metals HN0, 4°C 1x1 liter P Cyanide NaOH, 4°C 1x500mLP Nitrate/Sulfate H SO, 4°C 1x1 liter P Nitrate/Phosphate H'SO, 4°C 1x1 liter P Pest/PCB 4°C 3x1 liter AG TPH H SO, 4°C 2x1 liter AG TOC H SO, 4°C 1x1 liter P	
Sample	FIGURE 4-1 GROUNDWATER SAMPLE DATA RECORD NYSDEC QUALITY ASSURANCE PROGRAM PLAN ABB Environmental Services—	

	GROUNDWATER SAMPLE FIELD DATA RECORD	
	oject: Beeker Elcetranics Site: Belker oject Number: 3612672672/62 Date: 62/16/07	-
'	400	
5	Imple Location ID: BEGW 0 0 3 Signature of Sample	
-	Signature of Sample (
	Well DepthFtMeasuredTop of Well Well Riser Stick-upFt ProtectiveFHistoricalTop of Protective (from ground) Casing/Well Differen	
Water Level/Well Data	Depth to WaterFt. Well Material: Well Locked?: Well Dia2 inch	sed: be
Water Le	Height of Water Column X16 Gal/Ft. (2 in.) Gal/Vol. Well Integrity: Yes _N Prot. Casing Secure Concrete Collar Intact Total Gal Purged Other Other	
ation	Purging/Sampling Equipment Used: Decontamination Fluids Used:	
Equipment Documentation	Furging Sampling	v ater
Jata	PID: Ambient Airppm Well Mouthppm Purge Data CollectedIn ContainerColoredOdor	Cloudy
Field Analysis Data	Purge Data @ ^ 2. 0 Gal. @ Gal	Gal.
FIG	Oxidation - Reduction, +/- mv	-
	Dissolved Oxygen, ppm 5.5	_
	Analytical Parameter If Sample Preservation Volume Sample Bottle ILot Nos.	
Sample Collection Requirements	Collected Method Required VOCs 4°C 3/40 ml SVOCs 4°C 2x1 liter AG Metals HN0, 4°C 1x1 liter P Cyanide NaOH, 4°C 1x500mLP Nitrate/Sulfate H SO, 4°C 1x1 liter P	
ole Collection Requiren		
Sample Co	Sheen on Over vater, finne FIGURE	4-1
, tu	GROUNDWATER SAMPLE DATA RECOMMENS (MS) Here as well. NYSDEC QUALITY ASSURANCE PROGRAM PL.	

P	Project: Becker				ATA RECORD. Becker		
Р	roject Number: 367	2072672	102	Date:	2/66/07		
				Time: Sta	rt: 1135	End: 12	0
S	sample Location ID:BE	6W006		Signature	of Sampler.		
	Well DepthFt.	Measured Historical	Top of We Top of Pro Casing	ell Well Riser otective (from grou	Stick-upFt.	ProtectiveCasing/Well Diff	Ft
Data					NOTICE SECURITY AND ADDRESS OF THE PARTY OF	Protective Casing	Ft.
Water Level/Well Data	Depth to WaterFt.	DVO	Well Locked?: Yes No	Well Dia. Cet Pish Gal/Vol.		Water Level EquiElect. CondFloat ActivaPress. Tran	. Probe ted
Wate	Height of Water Column Ft.	.16 GaVFt. (2 in.) .65 GaVFt. (4 in.)1.5 GaVFt. (6 in.) GaVFt. (in.)	=	Gal/Vol. _Total Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intac Other	Yes	No
itlon	Purging/S	iampling Equipment U	ised:		Decontaminati	on Fluids Used:	
Equipment Documentation	(If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Silicon Tubing Teflon/Silicon Tubing Airlift Hand Pump In-line Filter Press/Vac Filter	Equipment ID	- - - - - - - -	Deionized W Liquinox Sol Hexane	00%) ol/75% ASTM Type /ater ution /ater Solution	il water
Data	PID: Ambient Air	_ppm Well Mouth		e Data Collected	_Jr-line <u>V</u> Tur	Observations: bidClear oredOdor	Cloudy
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, +	>100		Gal. @	Gal. @	Gal. @	Gal.
正	Dissolved Oxygen, ppm	5.i				K	
	Analytical Parameter	/ If Sample Pr	reservation Method	Volume Required	Sample Bottle I	Lot Nos.	
(If Required at this Location)	VOCs SVOCs Metals Cyanide Nitrate/Sulfate Nitrate/Phosphate Pest/PCB TPH TOC		1°C/WL 1°C/WL HN0,,4°C 1,80,,4°C 1,50,,4°C 1,50,,4°C 1,50,,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500mLP 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		1/150	
✓ IF Re	Notes: Seren:	10 to 11	¥' -	GBOHNDW	ATER SAMPL	FIGUR	IE 4-1
	4D 22		NYSDE		ASSURANCE		PLAN

-	Projects Pacific -			ABRE BIRD D			
	Project: <u>BeCKSV</u> Project Number: <u>367</u>	Ekefroni	<u>い</u>	Site:	3ccker 02/05/07		***************************************
Ι΄		ECM 068 0					<u> </u>
			i W J	-	rt: <u>1430</u>	End:	320
-	Sample Location ID:	EGW008		Signature	of Sampler.		
	Well DepthF	tMeasured Historical		Protective (from grou	Stick-upFt.	ProtectiveCasing/Well Dif	
Data			Casin	9		Protective	Ft.
Water Level/Well Data	Depth to WaterF	Well Material: PVC SS	Well Locked Yes No	e Well Dia.	2 inch 4 inch 6 inch	Water Level EquElect. CondFloat ActivePress. Tran	I. Probe ited
Wate	Height of Water ColumnFt.	16 Gal/Ft. (2 ir X65 Gal/Ft. (4 ir 1.5 Gal/Ft. (6 ir Gal/Ft. (i	1.) 1.) =	[Gal/VolTotal Gal Purged	Well Integrity: Prot. Casing Secure Concrete Collar Intact Other	Yes	No
ation	Purging/	Sampling Equipment	Used:		Decontaminatio	n Fluids Used:	
Equipment Documentation	(If Used For) Purging Sampling	Peristaltic Pump Submersible Pump Bailer PVC/Sillicon Tubing Teflon/Silicon Tubin Airlift Hand Pump In-line Filter Press/Vac Filter	Equipmen	t ID	(All That Apply at Lor Methanol (10) 25% Methano Deionized Wa Liquinox Solu Hexane HNO ₃ /D.I. Wate None	0%) bl/75% ASTM Typ ater tion ater Solution	e il water
)ata	PID: Ambient Air	ppm Well Mouth	ppm P	urge Data Collected	Sample (In-lineTurb In ContainerColo		Cloudy
Field Analysis Data	Purge Data Temperature, Deg. C pH, units Specific Conductivity (µ Turbidity (NTUS) Oxidation - Reduction, Dissolved Oxygen, ppr	+/- mv	<u> </u>	Gal. @	Gal. @	_Gal. @	Gal.
ss.	Analytical Parameter	✓ If Sample I	Preservation Method	Volume Required	Sample Bottle IL	ot Nos.	
Sample Collection Requirements (*/ Il Required at this Location)		-	4°C 4°C HN0,,4°C NaOH,4°C H,S0,4°C H,S0,4°C 4°C H,S0,4°C H,S0,4°C	2x40 ml 2x1 liter AG 1x1 liter P 1x500mLP 1x1 liter P 1x1 liter P 3x1 liter AG 2x1 liter AG 1x1 liter P		15/5	
Sample Co (Notes: Sween:	8' to 12'	trere	4-	ty cst mate 10 VATER SAMPLE	FIGUE	RE 4-1
1404014	A150	7.	NYS		ASSURANCE F		PLAN

ATTACHMENT C:

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY FORMS

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 Brandon AL Shar Date/Time Prepared 04/03/17 @ 0845
Preparer's Affiliation MACTEL - Partland Phone No. 207 775 5401
Purpose of Investigation Soil Vapor Intrusion CABERKER ELECTRONICS Site # 42007
1. OCCUPANT: A There was no one home so conducted
1. OCCUPANT: A There was no one home, so conducted Interviewed: YN interview questionner to the best of our ability Last Name: First Name:
Last Name: First Name:
Address:
County:
Home Phone:Office Phone:
Number of Occupants/persons at this location Age of Occupants Valary
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:

Sample 1D: V-10

page 1 of8

if the property is residenti	iai, type: (Circle appropriate response)
Ranch Raised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment House Log Home 3-Family Colonial Mobile Home Mobile Home Add thin in front Townhouses/Condos Other: Duck of Mo
If multiple units, how man	\mathbf{y} ? \mathcal{P}
If the property is commerc	cial, type?
Business Type(s)	NA
Does it include residence	ces (i.e., multi-use) N If yes, how many? MA
Other characteristics:	
Number of floors	Building age un Known
Is the building insulated	1?(Y)/N How air tight? Tight / Average / Not Tight an Knum
4. AIRFLOW	
Use air current tubes or tr	racer smoke to evaluate airflow patterns and qualitatively describe:
Airflow between floors	
Airflow near source	
Outdoor air infiltration	
Infiltration into air ducts	

Sample 10: V-10

page 2 of 8

	All Marie (Marie Marie Mar Marie Marie Ma	3			
5. BASEMENT AND CONSTRU	CTION CHARA	ACTERISTIC	S (Circle all that	apply)	
a. Above grade construction:	wood frame	concrete	stone	brick	inchile heme
b. Basement type:	full	crawlspace	↔ slab	other	NERO
c. Basement floor:	concrete	dirt	stone	other_	
d. Basement floor: Under	uncovered	covered	covered with	1 (1/4)	
e. Concrete floor: thile	unsealed	sealed	sealed with	(N/A)	and could be desired.
f. Foundation walls:	poured	block	stone	other_	State -plast
g. Foundation walls:	unsealed	sealed	sealed with		
h. The basement is:	wet	damp	dry	moldy	
i. The basement is:	finished	unfinished	partially fini	shed	
j. Sump present?	YN	The second secon			
k. Water in sump?	N / not applicable				
Basement/Lowest level depth below	grade:	_(feet)			
Identify potential soil vapor entry p	ooints and appro	ximate size (e.	g., cracks, utilit	y ports, dra	ins)
broken	slats in	n our	space of	trai	ler,
and	slats in	benea	to ada	timp.	
6. HEATING, VENTING and AII	R CONDITIONI	NG (Circle all	that apply)		
Type of heating system(s) used in the	nis building: (circ	cle all that app	ly – note prima	ry)	
Hot air circulation Space Heaters Electric baseboard	Heat pump Stream radiation Wood stove	on Radi	water baseboard ant floor oor wood boiler		sumed
The primary type of fuel used is:					
Natural Gas Electric Wood	Fuel Oil Propane Coal	Kero Solar			
Domestic hot water tank fueled by:	Drican	1 - 9	Chr. ad		

Sample 1D: V-10

Basement

Central Air

Outdoors

Main Floor

Window units Open Windows

unknown

Other

None

Boiler/furnace located in:

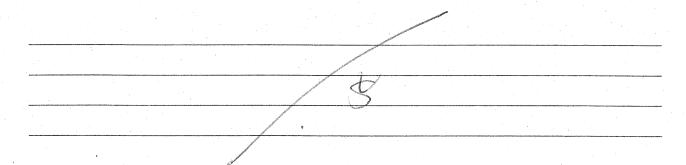
Air conditioning:

page 3 of 8

Are the	re air	distribution	ducts	present?
---------	--------	--------------	-------	----------



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



7. OCCUPANCY

Level

Is basement/lowest level occupied?

Full-time

Occasionally

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

Seldom

Almost Never

Basement

Claw Space - np

1st Floor

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y /M)

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 4 n Knwn

d. Has the building ever had a fire?

- Y/N When? Ln Kum
- e. Is a kerosene or unvented gas space heater present?
- Y/N Where? unkum

- f. Is there a workshop or hobby/craft area?
- Y/N Where & Type? uh Kuwn

g. Is there smoking in the building?

- Y/N How frequently? anknown
- h. Have cleaning products been used recently?
- Y/N When & Type? un Kown
- i. Have cosmetic products been used recently?
- Y/N When & Type? Uhknown

Sample 1D: V-10

page 4.f8

j. Has painting/staining been done in the last 6 months?	Y/N	Where & When? Un Kimn
k. Is there new carpet, drapes or other textiles?	Y/N	Where & When? un Kurowh
l. Have air fresheners been used recently?	Y / N	When & Type? un Kmown
m. Is there a kitchen exhaust fan?	Y / N	If yes, where vented? Unknown
n. Is there a bathroom exhaust fan?	Y/N	If yes, where vented?un Kum
o. Is there a clothes dryer?	Y/N	If yes, is it vented outside? Y/N anknow
p. Has there been a pesticide application?	Y / N	When & Type? hhkhm
Are there odors in the building? If yes, please describe:	Y/N	
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist	uto boďy	shop, painting, fuel oil delivery,
boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used? If yes, are their clothes washed at work?	+	
If yes, are their clothes washed at work?	Y/N	(N/A)
Do any of the building occupants regularly use or work at a response)	dry-cle	aning service? (Circle appropriate
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. Is the system active or passive? Active/Passive	e? Y/N	Date of Installation: 4 n Knun
9. WATER AND SEWAGE	thes	2 - 3 41 Known
	n Well	Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leach	Field	Dry Well Other:
10. RELOCATION INFORMATION (for oil spill residential		rancy
a. Provide reasons why relocation is recommended:	ai emei g	(ency)
b. Residents choose to: remain in home relocate to fri	ands/for	nily relocate to hotel/motel
c. Responsibility for costs associated with reimbursemen		
d. Relocation package provided and explained to reside	•	Y/N
a. Relocation package provided and explained to reside.	1115	I / IN

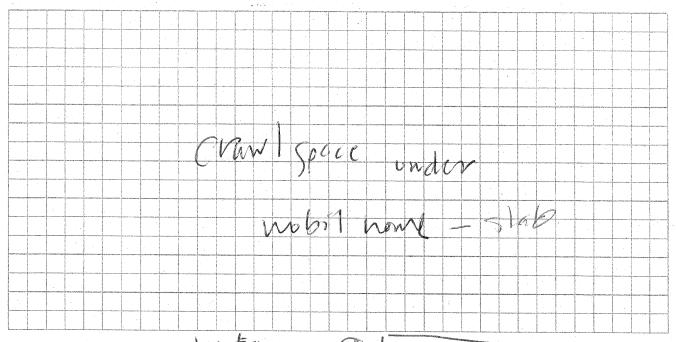
Sample iD: V-10

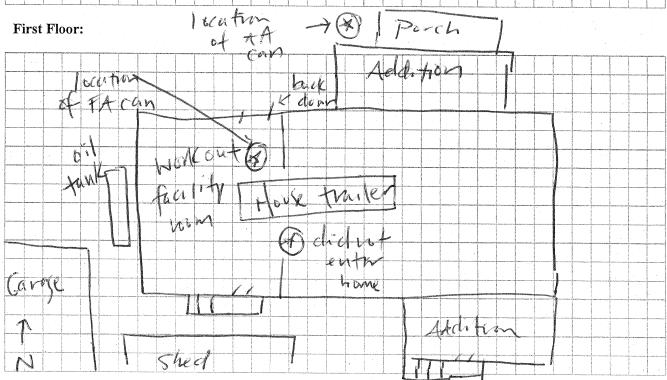
page 5 of 8

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:





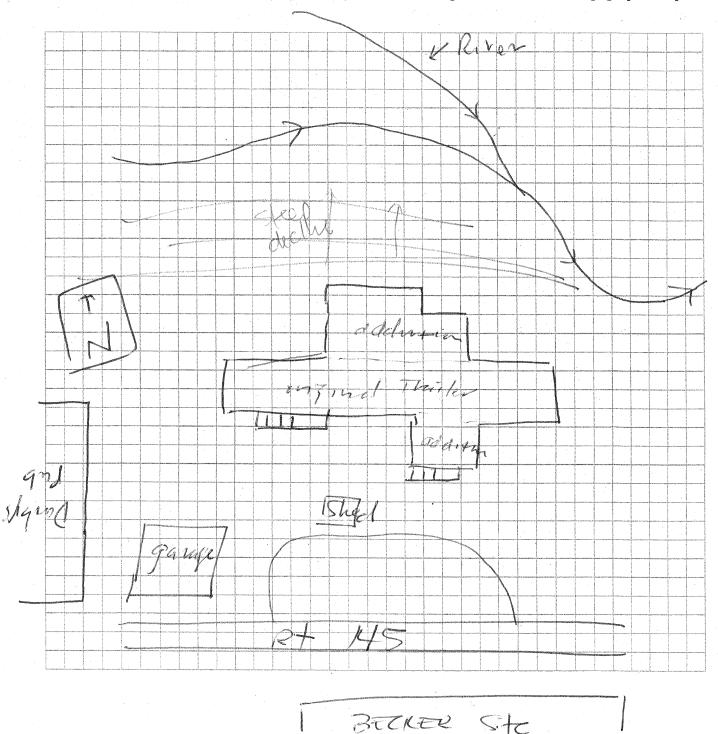
Sample 10: V-10

Page 6 of 8

12. OUTDOOR PLOT

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

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



Sample 1D: V-10

Page 7. F8

13	PRC	m	CT	INVENT	ODV	FORM

Make &	Model of field	instrument used:	NIT	7	*	
			 1			

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 ** <u>Y / N</u>
					/	
			and the second			
-						
	en e la companya de l					
						-
			1/1			
		/	0/1			
			K			
		-				

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

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Sample 10: V-10

page 8 ef8

^{**} 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.

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 Branch Al. Show Date/Time Prepared 4/02/2007 (2515)
Preparer's Affiliation MtTTC ESC Phone No. 2077755401
Purpose of Investigation Soil Vapor Intrusion Site #42007 - BERKER
1. OCCUPANT: Valant -> unheated
Interviewed: Y/N
Last Name: First Name:
Address:
County:
Home Phone: Office Phone:
Number of Occupants/persons at this location Age of Occupants Vacant
2. OWNER OR LANDLORD: (Check if same as occupant MA)
Interviewed: Y/N Same as occupant 11/10 Same as occu
Interviewed: Y/N Last Name: First Name: Availy (on A out as
Address:
Address: County: Vacant
Home Phone:Office Phone:
3. BUILDING CHARACTERISTICS
Type of Building: (Circle appropriate response)
Residential School Commercial/Multi-use Industrial Church Other:

Sample 1D: V-11

page 1 of 8

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

Sample 1D: V-11

page 2 of 8

5.	BASEMENT AND	CONSTRUCTION	CHARACTERISTICS (Circ	le all	that apply)

		and the second s			
a. Above grade construction:	wood frame	concrete	stone	brick	g .
b. Basement type:	full	crawlspace	slab	other Phih	2
c. Basement floor:	concrete	dirt Shall	stone	other	
d. Basement floor:	uncovered	covered	covered with		
e. Concrete floor:	unsealed	sealed	sealed with <u></u>	nKum -	pach
f. Foundation walls:	poured	block	stone	other	lua
g. Foundation walls:	unsealed	sealed	sealed with	in Kinn	
h. The basement is:	wet	damp	dry	moldy	
i. The basement is:	finished	unfinished	partially finish		
j. Sump present?	YN	vain pipe	e to ou	Leide	
k. Water in sump? Y/N	/ not applicable				
Basement/Lowest level depth below	grade:(feet)			
Identify potential soil vapor entry p					-
					- -
6. HEATING, VENTING and AIR	CONDITIONIN	${f G}$ (Circle all tha	t apply)		
Type of heating system(s) used in th	is building: (circle	e all that apply	– note primary	y)	
Hot air circulation Space Heaters Electric baseboard	Heat pump Stream radiation Wood stove	Radiant	ter baseboard floor r wood boiler	Other	
The primary type of fuel used is: Natural Gas Electric Wood Which	Fuel-Oil) Propane Coal	Keroser Solar			
Domestic hot water tank fueled by:				$\frac{x}{x} = \frac{x}{x}$	
Boiler/furnace located in: Baser	nent Outdoor	rs Main Fl	oor	Other	
Air conditioning: Central	al Air Window	units Open W	Vindows	None	

Sample 1D: V-11

page 3 of 8

Are there air distribution ducts present?

Y/N hnllrom

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.

NA	
b. Does the garage have a separate heating unit? c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) d. Has the building ever had a fire? e. Is a kerosene or unvented gas space heater present? f. Is there a workshop or hobby/craft area? y/N Where? y/N Where?	
7. OCCUPANCY	
Is basement/lowest level occupied? Full-time Occa	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage) Int Space Valunt TORS THAT MAY INFLUENCE INDOOR AIR QUALITY there an attached garage? The street in the garage (e.g., lawnmower, atv, car) Is the building ever had a fire? The workshop or hobby/craft area? YN Where? YN Where & Type? YN How frequently?
Level General Use of Each Floor (e.g., familyroo	om, bedroom, laundry, workshop, storage)
Basement Strafe	
1st Floor Iving Spale - Valunt	
2nd Floor INNY Space vacan	+
4 th Floor	
	QUALITY (D) & h with a covered
a. Is there an attached garage?	YXX
b. Does the garage have a separate heating unit?	Y/N/NA
d. Has the building ever had a fire?	Y/N When? UNEWWN
e. Is a kerosene or unvented gas space heater present?	Y (N) Where? Did not see one
f. Is there a workshop or hobby/craft area?	
g. Is there smoking in the building?	Y/N How frequently? UN Chown
h. Have cleaning products been used recently?	Y/N When & Type?

Sample 1D. V-11

i. Have cosmetic products been used recently?

page 4.f8

Y (N) When & Type? _____

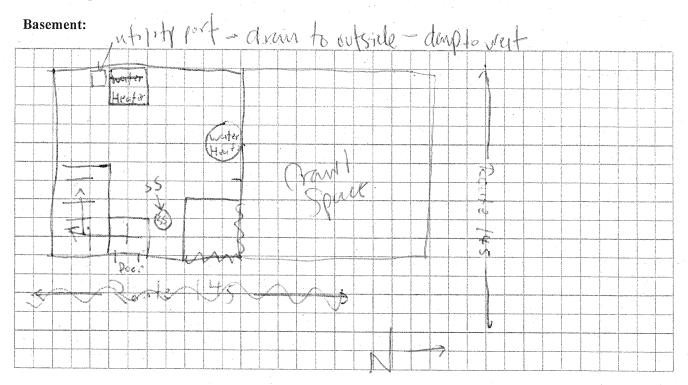
j. Has painting/stai	ning been done in	the last 6 months?	YN	Where & When?	
k. Is there new carp	pet, drapes or oth	er textiles?	YN	Where & When?	
l. Have air freshene	ers been used rece	ently?		When & Type?	
m. Is there a kitche	en exhaust fan?		⊗ /N	If yes, where vented? Oktow	
n. Is there a bathro	oom exhaust fan?	e in the state of the second o	Y / 🔊	If yes, where vented?	
o. Is there a clothes	dryer?			If yes, is it vented outside? Y / N	
p. Has there been a	pesticide applica	tion?	Y / N	When & Type? 4 n K vann - m	10
Are there odors in If yes, please descr			ON		Vo
boiler mechanic, pestic	cturing or laboratoride application, co	ory, auto mechanic o esmetologist	Y / N r auto body	shop, painting, fuel oil delivery,	
If yes, what types of If yes, are their cloth			YN		
Do any of the building response)	g occupants regul	arly use or work a	t a dry-clea	ning service? (Circle appropriate	
Yes, use dry-c	leaning regularly (leaning infrequent dry-cleaning servi	ly (monthly or less)		Unknown	
Is there a radon mitig	gation system for r r passive?	the building/structor Active/Passive	ure? Y/Q	Date of Installation:	
9. WATER AND SEV	WAGE			n ASSumed.	
Water Supply:	Public Water (Drilled Well Driv	ven Well	Dug Well Other: UN Knum Other: Un Knum	
Sewage Disposal:	Public Sewer	Septic Tank Lea	ch Field	Dry Well Other: Un Khum Ssumed	
10. RELOCATION I	NFORMATION ((for oil spill residen	itial emerge		
a. Provide reason	s why relocation i	is recommended: _			
b. Residents choo	se to: remain in ho	ome relocate to	friends/fam	ily relocate to hotel/motel	
c. Responsibility i	for costs associate	d with reimbursen	ent explain	ned? Y/N	
d. Relocation pac	kage provided an	d explained to resid	dents?	Y/N	

Sample iD: V-11

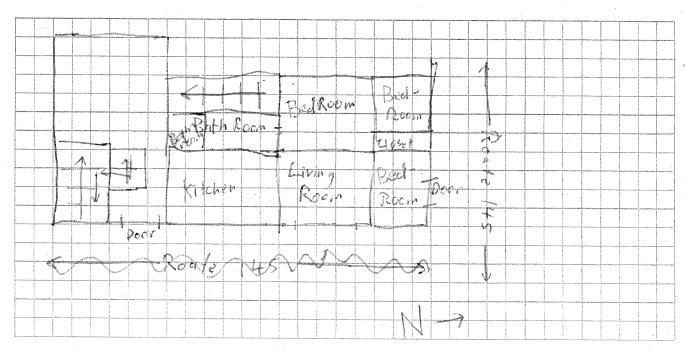
page 5 of 8

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.



First Floor:



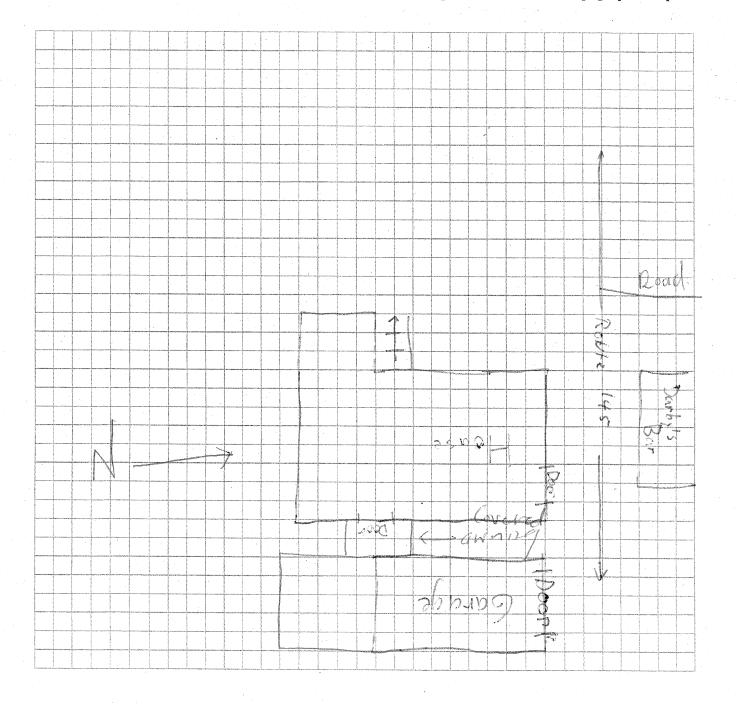
Sample 10: V-11

Page 6 of 8

12. OUTDOOR PLOT

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

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



Sample 1D: V-11

Page 7 of 8

13. PRODUCT INVENTORY FORM

Make & M	Iodel of field	instrument	used:	ا مر	h R	A Folk.	Amore	DIN	21	651	bG
				1 /		,		1			

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
Basament Brad=0	Contry All Purper	toz	U	Tetrahiche furmo, Acehde,	0	N
	Easy Going RV and Mariae Antitiers	gol	U	N/A	0	11
	Moore Alkyd Primer	gal	U	Mineral Spirits	0	* 4
	James way Acrylie	Igal	U	Acrylic Resin, Nepheline Sten	te O	
,	Impervo Alkyd	802		Petroleum Solvants	0	- 1.
w ///	Cook and Dunn Late & Primer/Scaler	Gord	,	Calcium Carbonate	8	
11	1 10	(gal	V	Alltyd Resin Colcium Corbande Petrologia Solvends	O	11 11
11	Cook and Down	1 cel	U	Enleinm Carbonate, Albjed Resin Steddard Solven t	Ó	
// //	Zinger Primer-	14+	V	Ethanol, Shellac, Iso pripanel, Methanol	3006	1. 6.
First Floor Blood = 10	OFT Invect Republing	6c z		N.N.D etay-meta to mamicy	Ö	11 / /
17 //	Sharmin Williams	(2) 1400		Calcium Carbonnethy land Exect 262-Buttay 2though - Ethanol	0	3.8
4 4	Red and Whole	3202	U	Petroleum Distiliales	0	2
	1					
				-		

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

P:\Sections\SIS\Oil Spills\Guidance Docs\OSR-3.doc

Sample 10: V-11

page 8-f8

^{**} 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.

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 Brandon A.L. Shaw Date/Time Prepared Wil 2, 2017 @ 1300
Preparer's Affiliation MACTEL - Portland, NE Phone No. 207-775540/
Purpose of Investigation SubStab/Indoor Air Survey @ Becker Electronics Sik# 4-20-007; Vapor Intrusion Evaluation
1. OCCUPANT: UWWW
Interviewed: YN
Last Name: First Name: SuSu
Address: 2205 Route 145, East Durham, NY
County: Oreene Pub 518 314 31140
Number of Occupants/persons at this location () Age of Occupants () -7 Customers hver
Number of Occupants/persons at this location Age of Occupants Age of Occupants Age of Occupants Averably holde 2. OWNER OR LANDLORD: (Check if same as occupant) Interviewed: Y/N
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 - Pup Industrial Church Other:

Sample 1D, V-2

page 1 of 8

Sample 1D: V-2

page 2 of 8

5. BASEMENT AND CONSTRU	CTION CHARA	CTERISTICS	(Circle all that a	apply)
a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full how	crawlspace	slab	other
c. Basement floor:	concrete	dirt)	stone	other
d. Basement floor:	uncovered	covered	covered with	
e. Concrete floor:	unsealed	sealed	sealed with	Sented & years ag
f. Foundation walls:	poured	block	stone	other
g. Foundation walls:	unsealed	sealed	sealed with _	
h. The basement is:	wet	damp	(dry)	moldy - N
i. The basement is:	finished	unfinished	partially finis	hed
j. Sump present?	Y(N)	The second second		
k. Water in sump? Y/N	/ not applicable	1 1000	ment	
k. Water in sump? Y/N Basement/Lowest level depth below	grade: All	(that)	j	0 1095 to 24's
Identify potential soil vapor entry p		%)		
old of broken in				
6. HEATING, VENTING and AIF	CONDITIONIN	NG (Circle all t	hat apply)	
Type of heating system(s) used in th	is building: (circl	le all that appl	y – note primar	y)
Hot air circulation Space Heaters Electric baseboard	Heat pump Stream radiatio Wood stove	Hot w n Radia Outdo	vater baseboard int floor	diving mm - with
The primary type of fuel used is:			W	
Natural Gas Electric Wood	Fuel Oil Propane Coal	Keros Solar	sene	
Domestic hot water tank fueled by:	0,1			
Boiler/furnace located in: Baser	nent Outdoo	ors Main	Floor	Other
Air conditioning: Centr	al Air Window	w units Open	Windows	None
	J			
1/-2	, 5 b	we		page 3 of
Sample 1D: V-2				page sor

the more an alsurbation ducts present.	Are	there	air	distribution	ducts	present?
--	-----	-------	-----	--------------	-------	----------



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.

duct mink below attra	c; struight out to the
unth	
•	
7. OCCUPANCY Is basement/lowest level occupied? Full-time C	Occasionally Seldom Almost Never
Level General Use of Each Floor (e.g., family	yroom, bedroom, laundry, workshop, storage)
Basement Stray - day 1st Floor Pub 2nd Floor	Space
3 rd Floor 4 th Floor	
8. FACTORS THAT MAY INFLUENCE INDOOR AI	IR QUALITY
a. Is there an attached garage?	YW
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)	YN NA Please specify

d. Has the building ever had a fire?

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

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

g. Is there smoking in the building?

h. Have cleaning products been used recently?

i. Have cosmetic products been used recently?

Y (N) When?_____

Y(N) Where?_____

Y(N) Where & Type?

Y (N) How frequently?

(Y) N When & Type? Werney business

Y(N) When & Type?_____

Sample 1D: V-2

page 4.f8

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? bleach in worming
m. Is there a kitchen exhaust fan?	YN When & Type? bleech in wrmy P/N If yes, where vented? QN & System, yes
n. Is there a bathroom exhaust fan?	N If yes, where vented?
o. Is there a clothes dryer?	Y / W If yes, is it vented outside? Y / N
p. Has there been a pesticide application?	Y(N) When & Type?
Are there odors in the building? If yes, please describe:	Y/\(\vartheta\)
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or au boiler mechanic, pesticide application, cosmetologist	Y Note to body shop, painting, fuel oil delivery,
If yes, what types of solvents are used? $\frac{165 - 90}{100}$	un Hzer
If yes, are their clothes washed at work?	Y/N
Do any of the building occupants regularly use or work at a response)	dry-cleaning service? (Circle appropriate
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	Unknown
Is there a radon mitigation system for the building/structure Is the system active or passive? Active/Passive	? Y/NDate of Installation:
9. WATER AND SEWAGE	15 6451
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 residentia	l emergency)
a. Provide reasons why relocation is recommended:	NA
b. Residents choose to: remain in home relocate to frie	nds/family relocate to hotel/motel
c. Responsibility for costs associated with reimbursemen	t explained? Y/N (WA)
d. Relocation package provided and explained to residen	ts? Y/N/NA

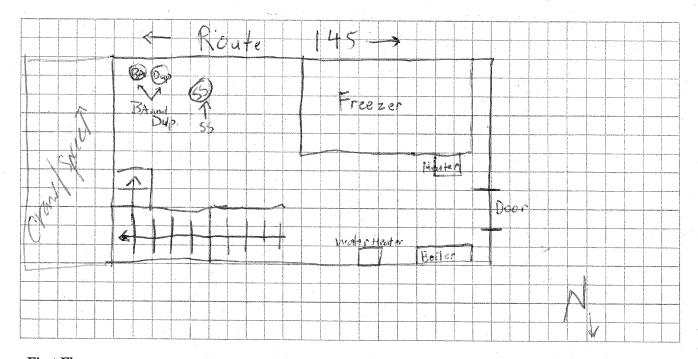
Sample iD: V-2

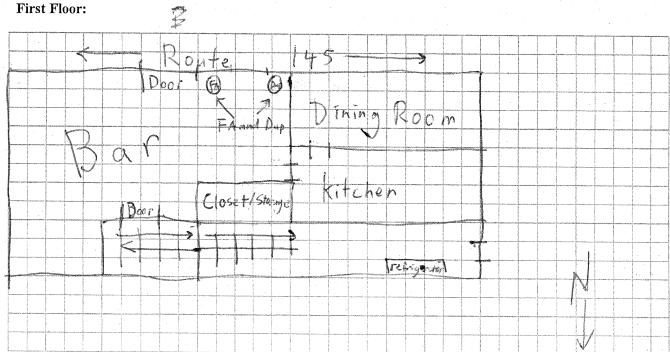
page 5 of 8

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:





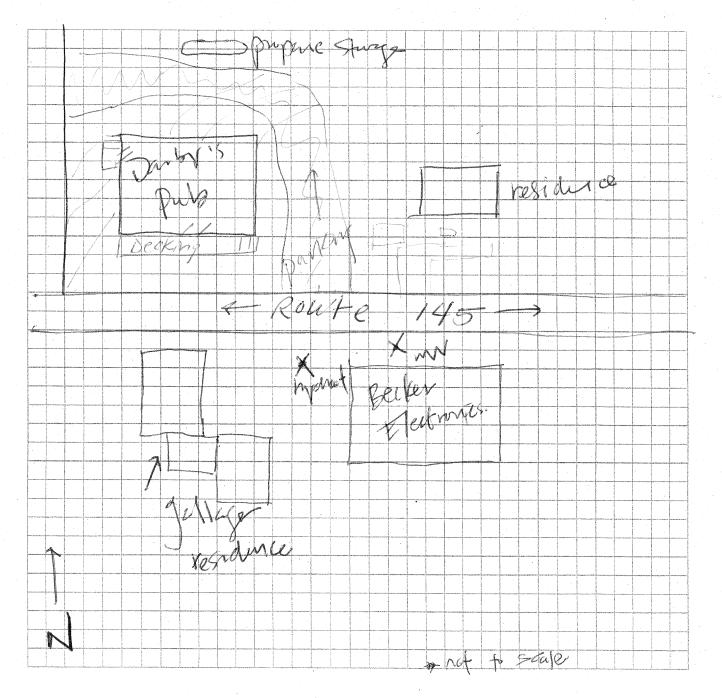
Sample 1D: V-2

Page 6 of 8

12. OUTDOOR PLOT

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

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



Sample 1D: V-2

2age 7 of 8

13. PRODUCT INVENTORY FORM

						1 1	1 /
		ė	DAG		101	mitton	L
Make & Model of field instrument used:	<u> </u>	06	KAL	Dlus	- HIM	RHWJ	

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
Bosemant Blend = 0	Compressed Gas NOS	(3) <i>NA</i>	U	Nitrogen, Carbon Diexi de	\mathcal{O}	N
	Epi-Son Leuk-Seek Leak Detection Florid	gal	U	N/A	0	\$ 11
SV 11	GE Sticone IL Silicone Soulant	10.loz	U	Methoxy Poly dimethy Isilicone.	2127ppb	9. 11
\$ 1 Pr	1/	X 11	XX //	Dimethy Incly silixane, Hexamethy I distilizand, methy !- trimethoxy silan e	11. 1. 7	11 11
33 77	5 gad containers of	2) Sga	1 4	gasaline	719pph	1 //
	Open buckets filler	(2) MA		Unknown N/A	442 Oprb	11 //
Closet	INDICOM Flying Freet	1502	V	Pyethrins, Piperunyl butualle	0	££ //
Blryd = 0	Tarn-X Tarnish remover	1202	V	thiouren, sulformic acid	0	1 1 1
× 11	Kilz Casual Colors Spray Paint	1202	U	Tolnene, Acetone, Xylene	384 pr	
**	Behr Enamel Paint	(2) Igpl	U	Ethylene Cigol	0	38 / /
11	Zinsser Bulls-exel-2-3 Primer	1 gal	· · · · · · · · · · · · · · · · · · ·	TE thilling Glycol, Acry lie polyman	0	81 //
	Benjamine Moore Latex Paint	Tal	Ü	Eigible	0	44 . / /
Bar BKgd=0	Hot Shot Flying Inself Killer	150z	i i	Permethrian, d-transAllettrin	8ppb	11 "
s. 11.	Fleiby Furniture Polish	17.702	Ü	Isoparaffinic Mulrocarhon, Isobutune, Propane, Butune	888 pp b	4 "
	Behold Furniture Poissn	16.602	U	N/A	6057pm	84 %
B1401=406	Shoo-fly hornet	202	U	Diazion, Pyrethins, Piperonyl	574000	W //
X 11	Brasso Metal Paish	80z	V	Petroleum Distillut es	677 ppb	*
Basement Bayes	Behr Parkhamel Floor	Igal	U·	Ethylene Gyzol	0	11 //
I magazina mana ya minaga wa ma		J.,	AN ORDER WAS ARRESTED AND ARREST THE ARREST TO STATE AND ARREST TO STATE ARREST TO STA	50 G0000 TETRI SANJAN SINDAN SANJAN S	200 200 j julijanski 200 iza izara kalendari (j. 120 mma.)	W

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

N/A : Not Applicable

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Sample 11): V-2

page 8 ef8

^{**} 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.

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 Brandon Al Show Date/Time Prepared 04/03/2007 Po 1015
Preparer's Affiliation MKTEL - Portland, MPhone No. 2078283367
Purpose of Investigation So I Vapor Intrusion Investigation, Site: 420007. * Becker Electronics
1. OCCUPANT:
Interviewed: Y/N
Last Name: First Name:
Address:
County:
Home Phone: Office Phone:
Number of Occupants/persons at this location Vanus Age of Occupants Vanus, clusted October
though you severa
2. OWNER OR LANDLORD: (Check if same as occupant ✓) ∈ see
Interviewed: YN
Interviewed: YN
Interviewed: YN
Interviewed: YN Last Name: Handle First Name: Loy Address: Love 145 Fast Durham, N
Interviewed: Y/N Last Name: Handle First Name: Loy Address: Love 145, Fast Durham, N/ County: Greene
Interviewed: Y/N Last Name: Handle First Name: Loy Address: Love 145, Fast Durham, N/ County: Greene
Interviewed: (Y)N Last Name: Handle First Name: Ley Address: Love 145, Fast Durham, NY County: Greene Home Phone: 518622 2934 Office Phone: 518 634 7200

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Sample 1D: V-

If the property is residenti	al, type? (Circle appropria	ate response)	
Ranch Raised Ranch Cape Cod	2-Family Split Level Contemporary	3-Family Colonial Mobile Home	
Ouplex Modular	Apartment House Log Home	Townhouses/Condos Other:	
If multiple units, how man	y? (1)		
If the property is commerce			and the second s
Business Type(s) <u>ka</u>	ce track - 5h	ackbar	
Does it include residence	es (i.e., multi-use)? Y	If yes, how many?	NA
Other characteristics:			
Number of floors (Build	ling age 1986	
Is the building insulated	N How	air tight? Tight / Average / N	ot Tight
4. AIRFLOW			
Use air current tubes or tr	acer smoke to evaluate a	irflow patterns and qualitati	vely describe:
Airflow between floors			
	18		
Airflow near source			
Outdoor air infiltration	k of buildin	1:5 open, 10	enky underes
Infiltration into air ducts			

Sample D: V-1

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5. BASEMENT AND CONSTRUC	TION CHARA	CTERISTICS	(Circle all that a	apply)
a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other wn
c. Basement floor:	concrete	dirt	stone	other blacktop in back
d. Basement floor:	uncovered	covered	covered with	other blacktop in back und punktiles gold
e. Concrete floor:	unsealed	sealed	sealed with _	- Street
f. Foundation walls:	poured	block	stone	other NA
g. Foundation walls:	unsealed	sealed	sealed with _	MA
h. The basement is:	wet	damp	dry	moldy NA
i. The basement is:	finished	unfinished	partially finis	hed N/A
j. Sump present?	Y(N)NA			
k. Water in sump? Y/N	/ not applicable			
Basement/Lowest level depth below	grade:	(feet)		
Identify potential soil vapor entry p	oints and approx	ximate size (e.g.	, cracks, utility	ports, drains)
asphal	Loverge	d, buck	of bu	1dy is
6. HEATING, VENTING and AIR	CONDITIONIN	NG (Circle all th	at apply)	
Type of heating system(s) used in thi	s building: (circ	le all that apply	– note primai	ry)
Hot air circulation Space Heaters Electric baseboard	Heat pump Stream radiation Wood stove	on Radiar	ater baseboard at floor or wood boiler	Other <u>WW</u>
The primary type of fuel used is:				& unlinted
Natural Gas Electric Wood	Fuel Oil Propane Coal	Kerose Solar	vone	a untraffed all senson
Domestic hot water tank fueled by:	electric		100 mm mm m m m m m m m m m m m m m m m	
Boiler/furnace located in: Basen	nent Outdoo	ors Main I	Floor	Other
Air conditioning: Centra	al Air Windo	w units Open	Windows	None
				Y .
Sample iD: V-1				page 3 of 89

	2.4				
Are	there	air	distribution	ducts	present?



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

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

Almost Never

nla

Level

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

Basement

1st Floor

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage?
- b. Does the garage have a separate heating unit?
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)
- d. Has the building ever had a fire?
- e. Is a kerosene or unvented gas space heater present?
- f. Is there a workshop or hobby/craft area?
- g. Is there smoking in the building?
- h. Have cleaning products been used recently?
- i. Have cosmetic products been used recently?

Where?

How frequently?

Y/(N) When & Type?

When & Type?

sample 1D'_V-

$oldsymbol{5}$
j. Has painting/staining been done in the last 6 months? Y / Where & When?
k. Is there new carpet, drapes or other textiles? Y/N Where & When?
I. Have air fresheners been used recently? Y/N When & Type?
m. Is there a kitchen exhaust fan? \(\varphi / N \) If yes, where vented? \(\varphi \varphi \)
n. Is there a bathroom exhaust fan? N If yes, where vented? the she
o. Is there a clothes dryer? Y/V If yes, is it vented outside? Y/N
p. Has there been a pesticide application? Y N When & Type?
Are there odors in the building? If yes, please describe: The art of Pacent Sime october
Do any of the building occupants use solvents at work?
If yes, what types of solvents are used? Ges slive, brick cleanurs
If yes, are their clothes washed at work? Y Y
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 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

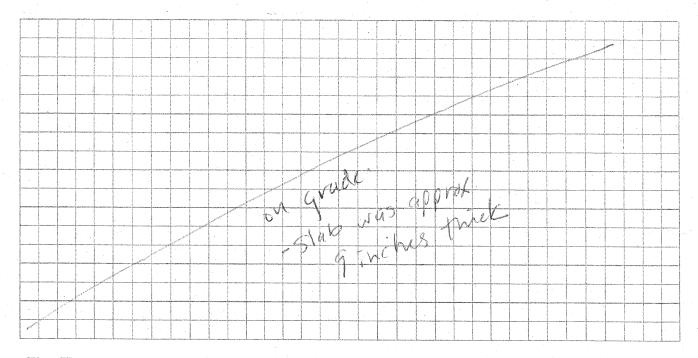
Sample iD: V-1

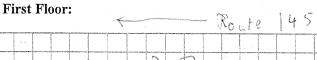
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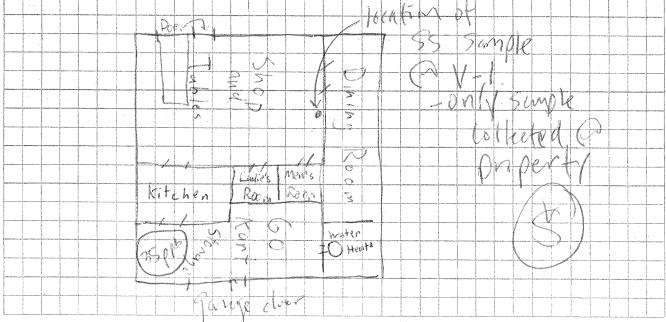
11. FLOOR PLANS

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:





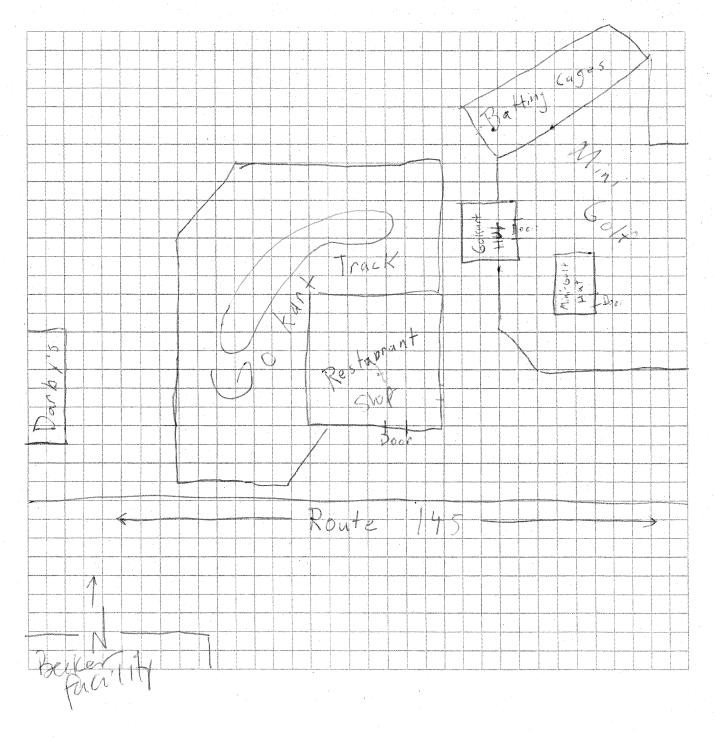


Sample 10: V-1

12. OUTDOOR PLOT

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

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



Sample 1D: V-1

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13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Ppb RAE plus - Dine #6569

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
Shop Broge = 8 35	Claire Stainless Steel Polish and Cleaner	1502	U	White Mineral Oil, Isoparuffinie Hydro Corton Mineral Spirit	165pp	N
C	No.	1 1 m	· · · · · · · · · · · · · · · · · · ·	Acetone, Methyl Acetute, Propone	3 100	
× * //	Behold Furnitus	16.602	V	N/A	127 April	. 5m
3 9	NET CARE Oil Base Stainless Steel Cleaner	1502	V	white Mineral Oil, Iso paraffinio	440 ppb	11
S	17	· '11	8 9	A celone, Methyl Acetate, Propone	4.	(
Bloga: 4	OFF! Skintustic	602	U	Pricardin	Sppb	\$ 1/1
Backroom	Klean-Strip Paint Thinner	3.02	U	N/A	123006	· /
Blight O	3M Super 77 Adhesive	16.7500	V	cutene propone, heptones.	299ppb	10
A 11	· N · · · · · · · · · · · · · · · · · ·	S . 17.	50000	2,3-dimetry Puting 2,2-dimety)	2 11	3 11.
- F1	WD 40 Sprax Lubricant	(2) llez	V	Petroleum Distillates	0	è //
T. (4)	X-O Rust Sprax Engme!	(20z	V	N/A	321 PPb	3 4
3 77	Ztrolite Speed-	1202	V	Benzene, Acetone, MethylBinzenu	266 pp 6	
2 ()	Service Pro Emergency	1202	V	Propone-Isobutune-N-Butune 15 th ylane Glycoi	0	
5 "	Bernzomatic	14.102	U	N/A	0	2 1/
= (,	Havoc Rodenticide (2)509	V	3[3- (4- bro.no -[1,1-biph eyl] -4 [, 2, 3,4-tetrohoro -[-holphtheny]	20-8	
!:	11	Y.	1 No. 1 No. 1 No. 2	4-h) oto 11-2H-1-benzopyran_	S	E
\$ 47	Raid Earth Options Waspand Harnets	ISoz	V	Eugenoi, 2 Phenethy Propionate	9	1
\$ 11	Gas Filled Go Karts	llears	V	Gasoline	39.4ppm	1,
2 47	Rost-Oleum Latex Enomel Paint	963202	> V	Petroleum Distillates	5763 ppb High	

^{*} 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.

NIA - Not Applicable

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Sample 10: V-1

page 8-f9

13. PRODUCT INVENTORY FORM

			N 111-1	1.
		OAFI	~し八の 並んり	M
Make & Model of field instrument used:	Onh	KAEDIUS	LIM - W V	
				8

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
Gultar + Backroein	Minwax wood Finish	2) 19,7	U	moneral Spirits	0	N
BKgd=0	Red Devil Enumel	layt	V	N/A	0	£ 11
3 11	Rengamin Moor	19, t	V	water/ blycols, Ethylene Excol	71006	3 11
3 "	X-O Rust Enumel 1	14+ 6	D-140cl D	Petoleum Distillates	44 000	٧ //
01//	Acrilic Latex	Igal	-(2)/9+ V	1-2 Ethandio (2 propensic Acid, 2- Methyl-Methyl Ester, Polymer with Butyl-2- Propince to, Nephelm	0	<u> </u>
\$ 17 77	S Property in	w. I	\$1, 11	with Butyl-2-Propinson to, Nephern Street e, 2-Nethyl-Monoester	5 0	*
: 17 T	Value Exterior Later wood Stain	Isal	U	NIK	0	8 //
V . 11	acme auto Finish ACMIC Enamel	3202	U	Eligible	0	2 11
÷ //	En an JAK yol	(2)800	U	Petroleum Solvents	0	3 4
10	Metal & Wood Frankl	(2)80;	()	Stoddard Spivento Soya Alkyd Resin	0	. ,
v y	3 C Flooring Adherine	3/02		Polypropylane	0	3 "
. 181	Olympion Miximum Wood Stair	bal	U	Ethylene Glycoll Octylisothiazala	18 O	· /,
\ //		265gr	es V	Ethylene Glycoi	0	1 //
		1				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

^{*} 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.

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Sample 10: V-1

page 8 - f8

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 Brandon Al Shad Date/Time Prepared 0403/2007 (1200
Preparer's Affiliation MACTEC - Portland, MEPhone No. 207 8283367
Purpose of Investigation Sil Vapor Intrusion Investigation; SIP# 420057 **Becker Electronics 1. OCCUPANT:
Interviewed: Y/N
Last Name: Norbun First Name: Gly
Address: 2146 Porte 145 > Berned Hone; Fast Durham, N/
County: <u>Everne</u>
County: <u>Greene</u> Home Phone: <u>518 634 7724</u> Office Phone: <u>544 112 412 -5000</u> (8 to 1 430)
Number of Occupants/persons at this location (3) Age of Occupants 11 , 52 , 49
2. OWNER OR LANDLORD: (Check if same as occupant \checkmark)
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:

page 1 of 89

Sample 1D: V-a

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 Nome Other:	
If multiple units, how many?	
If the property is commercial, type?	
Business Type(s)	
Does it include residences (i.e., multi-use)? Y/N A If yes, how many?	
Other characteristics:	
Number of floors Building age fre 1960!	
Is the building insulated Y N How air tight? Tight / Average / Not Tight	
4. AIRFLOW	
Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:	
Airflow between floors	
Airflow near source	
Outdoor air infiltration Basement has a large hole in Wall near where sum mas	<i>(</i>):
No re collected; rain came trough of corered for betreen	
Sumpling days	
Infiltration into air ducts	
To the state of th	

Sample D: V-9

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a. Above grade construction	on: Wood frame	concrete	stone	brick
b. Basement type:	GIR > To	Crawlspace	slab	other
c. Basement floor:	concrete	Of unds	stone	other
d. Basement floor:	uncovered	covered	covered with	
e. Concrete floor:	unsealed	sealed	sealed with _	- Martin II - Mart
f. Foundation walls:	poured	block	stone	other
g. Foundation walls:	unsealed	sealed	sealed with _	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finis	hed
j. Sump present?	Y/N 6 6	oul Kh	ead	
k. Water in sump?	Y N not applicable			
	Ac (150)	L ·		
asement/Lowest level depth l			cracks, utility	ports, drains)
			cracks, utility	ports, drains)
lentify potential soil vapor er			cracks, utility	ports, drains)
lentify potential soil vapor er			cracks, utility	ports, drains)
lentify potential soil vapor er	itry points and approx	ximate size (e.g.,		ports, drains)
HEATING, VENTING an	ntry points and approx	ximate size (e.g.,	nt apply)	
HEATING, VENTING an	d AIR CONDITIONII	NG (Circle all that apply	nt apply) – note prima r	
HEATING, VENTING an Hot air circulation	d AIR CONDITIONII in this building: (circ	NG (Circle all that apply	nt apply) – note primar ter baseboard	
HEATING, VENTING an Hot air circulation Space Heaters	d AIR CONDITIONII in this building: (circ Heat pump Stream radiatio	NG (Circle all that apply Hot wa Radian	nt apply) – note primar ter baseboard t floor	у)
HEATING, VENTING an ype of heating system(s) used Hot air circulation Space Heaters Electric baseboard	d AIR CONDITIONII in this building: (circ Heat pump Stream radiatio Wood stove	NG (Circle all that apply Hot wa Radian	nt apply) – note primar ter baseboard	
HEATING, VENTING an Hot air circulation Space Heaters	d AIR CONDITIONII in this building: (circ Heat pump Stream radiatio Wood stove	NG (Circle all that apply Hot wa Radian	nt apply) – note primar ter baseboard t floor	у)
HEATING, VENTING an ype of heating system(s) used Hot air circulation Space Heaters Electric baseboard	d AIR CONDITIONII in this building: (circ Heat pump Stream radiatio Wood stove	NG (Circle all that apply Hot wa on Radian Outdoo	nt apply) - note primar ter baseboard t floor or wood boiler	у)
HEATING, VENTING an word direction space Heaters Electric baseboard the primary type of fuel used	d AIR CONDITIONII I in this building: (circ Heat pump Stream radiatio Wood stove	NG (Circle all that apply Hot wa Radian	nt apply) - note primar ter baseboard t floor or wood boiler	у)
HEATING, VENTING an ype of heating system(s) used Hot air circulation Space Heaters Electric baseboard the primary type of fuel used Natural Gas	d AIR CONDITIONII in this building: (circ Heat pump Stream radiatio Wood stove is:	NG (Circle all that apply Hot was a Radian Outdoor	nt apply) - note primar ter baseboard t floor or wood boiler	у)
HEATING, VENTING an ype of heating system(s) used Hot air circulation Space Heaters Electric baseboard he primary type of fuel used Natural Gas Electric	d AIR CONDITIONII in this building: (circ Heat pump Stream radiatio Wood stove is: Fuel Øil Propane Coal	NG (Circle all that apply Hot was a Radian Outdoor	nt apply) - note primar ter baseboard t floor or wood boiler	у)
HEATING, VENTING an ype of heating system(s) used Hot air circulation Space Heaters Electric baseboard he primary type of fuel used Natural Gas Electric Wood omestic hot water tank fueled	d AIR CONDITIONII in this building: (circ Heat pump Stream radiatio Wood stove is: Fuel Øil Propane Coal	NG (Circle all that apply Hot was a Radian Outdoor Kerose Solar	nt apply) - note primar ter baseboard t floor or wood boiler ne	у)

Sample iD: V-9

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Are there	air	distribution	ducts	present?



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

7. OCCUPANCY	
Is basement/lowest level occupied? Full-time Occasiona	ally Seldom Almost Never
Level General Use of Each Floor (e.g., familyroom, be	edroom, laundry, workshop, storage)
Basement Harage / /amdy.	
1st Floor Inhy Space - family	I room, ding won
2nd Floor Time Space Sed 1200	ms (x)
3 rd Floor	
4 th Floor	
8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUAI	LITY
a. Is there an attached garage?	Y (N)
b. Does the garage have a separate heating unit?	Y/N/NA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y / N /(NA) Please specify
d. Has the building ever had a fire?	Y (N) When?
e. Is a kerosene or unvented gas space heater present?	Y /N) Where?
f. Is there a workshop or hobby/craft area?	N Where & Type?
g. Is there smoking in the building?	How frequently?
h. Have cleaning products been used recently?	(N) When & Type? 1st other 7
i Have cosmetic products been used recently?	N When & Type?

Sample 1D: V-9

page 4.f89

	5		
j. Has painting/sta	ining been done in the last 6 months?	YY	Where & When? Shelves in
k. Is there new can	rpet, drapes or other textiles?	Fo	Where & When?
l. Have air fresher	ners been used recently?	(Y)// N	When & Type? Cindles
m. Is there a kitch	en exhaust fan?	Y) N	If yes, where vented? ovtsido
n. Is there a bath	room exhaust fan?	Y/W	If yes, where vented?
o. Is there a clothe	es dryer?	(Y)/N	If yes, is it vented outside \mathbb{Q}/N
p. Has there been	a pesticide application?	YN	When & Type? Capture
Are there odors in If yes, please desc		Y/W	
(e.g., chemical manuf	ng occupants use solvents at work? Cacturing or laboratory, auto mechanic or icide application, cosmetologist	N r auto body	shop, painting, fuel oil delivery,
If yes, what types of	of solvents are used?	WA	
If yes, are their clos	thes washed at work?	Y/N	(MA)
Do any of the building response)	ng occupants regularly use or work at	a dry-clea	aning service? (Circle appropriate
Yes, use dry-	cleaning regularly (weekly) cleaning infrequently (monthly or less) a dry-cleaning service		(No) Unknown
Is there a radon mit	igation system for the building/structuor passive? Active/Passive	ıre? Y (N	Date of Installation:
	2		
9. WATER AND SE	WAGE	~ ~	100 bgs.
Water Supply:	Public Water Drilled Well Driv	Mell	Dug Well Other:
Sewage Disposal:	Public Sewer Septic Tank Lea	ch Field	Dry Well Other:
10. RELOCATION	INFORMATION (for oil spill residen	tial omerg	ency)
a. Provide reaso	ns why relocation is recommended: _		
b. Residents cho	ose to: remain in home relocate to	friends/fam	ily relocate to hotel/motel
c. Responsibility	for costs associated with reimbursem	ent explai	ned? Y/N
d. Relocation pa	ckage provided and explained to resid	lents?	Y / N

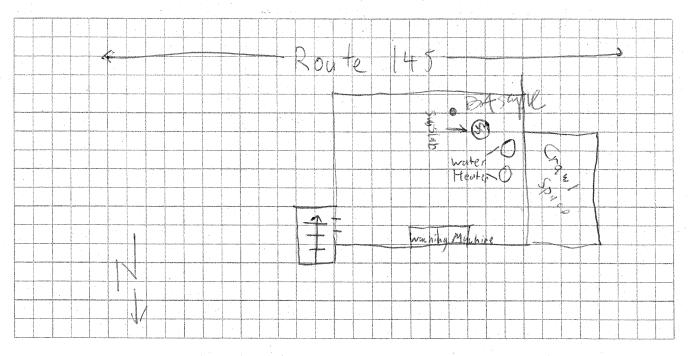
Sample iD: V-9

Page 5 + 89

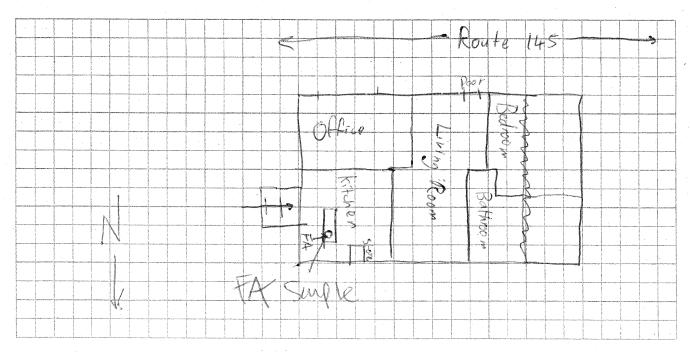
11. FLOOR PLANS

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

Basement:



First Floor:



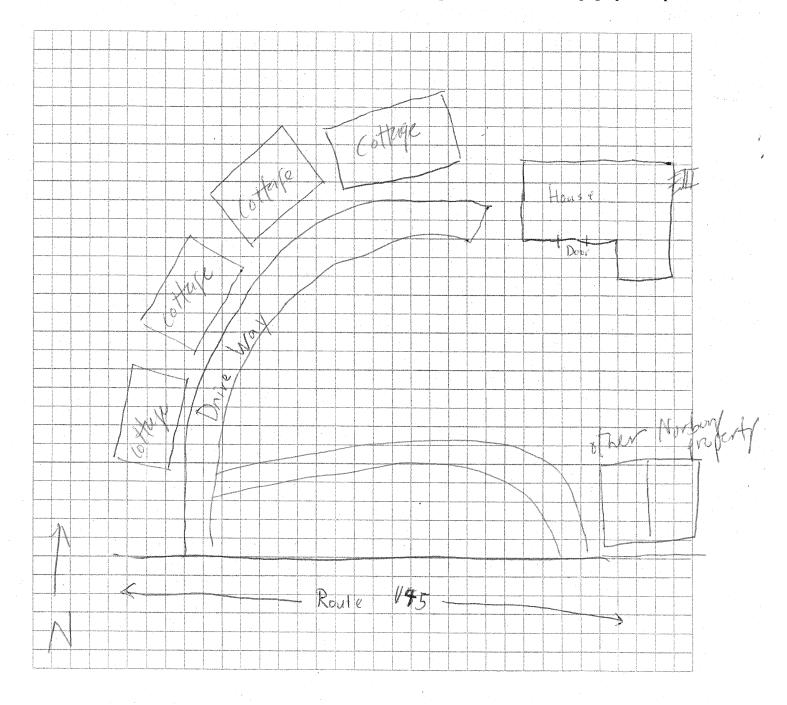
Sample 10: V-9

Page 6 of 89

12. OUTDOOR PLOT

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

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



Sample 1D: V-9

Page 7 of 89

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Mini Rae - Pine + 6969

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)	Phot Y/	
Basement Brand = 0	Cabot Polyuratan e	1g.t.	U	Glyco Ethor, n-Methy Prymoridone	0	· N	
17 m	Minus wood Finish	19 t		Aliphatic Hydrac arbon	0	1.1	10
6.4	d-con Buit Pellets Kats Mice I	(20) loz	UO.	Brodifacoum	0	100 si	\mathcal{F}_{ℓ}
VX 197	OSI RF-140 Roof and Hashin	(b) 10.2	oz UO	studdard Solven, Napthenic Distillate, Petroleum Distillate,	409 pp 6 High	4	μ^*
42 /6	PL Polynrethanel Roof/Flashing Sempent	Q)10.20	z VO	to luene N/A	0	¥,	1.
ac li	DAP ALOX Plus Acrylicsificone Coulk	(3) 10.1	l .	Ethylene Glycol	0	V _e	
11	GE Wadow and Door Silicone	10.102	ł	Methoxy polydinethyloiloxune Dimethylpolysiloxune	0	te s	4
1.2	DAP Concrete and Mortor Filler	10.102	VÔ	Etnylene Glyco 1	0	`\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
N.	() SI 100% Silicom	10.300	V	N/A	0	i,	ti .
N	BE Silicone II	10:102	VO	Metroxypolyclimetrysiloxone, Dimetry/Poixsiloxone,	0		4
11	truck Filler	Ac. C.	16. 17. 18.	Hexamethy I distance Methy 1 - trime Hoxx silans	(//	, š	1
1 1 1 1	UGI Dry Lot Masenry	10. Saz	U	N/A	39,006	١,	11
X 11	Min Wax Tung Oil Finish C	1320z		Aliphatic Hxdro Carbo ns	1003ppb	à.	/-
XX 14	Benjamin Moore Floor Patio Engal	I gol	U	Etaylene Glycol, Stoodard Solvents	0	1.1	11.
N H	Painters Touch Multi-purpose pain	3202		N/A	0	Ng.	1,
11 11	Behr Premium plus		8-Wigt U	Etylen Glycol	0	3	11
ls h	Rust-aleum Protectivo Enamel	80Z		N/A	0	3	1)
÷	Zinsser DIF Wallouper Stripper	Iga l		Diethylene Glicol, Swłuctout	0	2.6	//
V //	Minwax Polyshades Pola Wrethane	(B) 19,+	V	Alaphatic HydroCarbons	0		4.

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

N/A-Not Applicable

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Sample 10: V-9

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^{**} 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.

8

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: 6569 - Pine Ppb Mini Rag

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

Admenth permission of BShan.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
Barnent	Lyvid Wrench #1			Petro Disstillates		
Bigging appropriate to the control of the control o	orthe Home Defense	(2) 1941		B. Ruthin	173	
1	Niggra Spray Street	2202	И	NA	8	The second secon
FIRTHU	DINETISL FUM PORTS	807	40	Detr Distillates	45	
december 1	Decon Rata Mice Kill	er Bass	40	***************************************		
Firstlow	Bissell Ar Freshme		4	N/4	18/	
Same Same Same Same Same Same Same Same	Hofslet-Rearby Antkill	r 1202	4	Tralomethinh, Alle this	140	
Providence de la constante de	TO Crest form. Potish			Petro Distillates Propose Bly	12/	
J	NasPthonet Killer	17.5%	И	Tetro Distilates, Propose Blander Tetromething Permetarin Pigerray 1, but exide	125	
				Pipernoy 1, butexide		1
		:				
1						

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

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Sample 1D. V-9

page 9 of 9

^{**} 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.

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 Brandon AL Shaw Date/Time Prepared 1/03/2007 (3) 1335
Preparer's Affiliation MALTET - Portland, ME Phone No. 207 7755401
Purpose of Investigation Son Vapor Introsion Investigation, Site # 42007
1. OCCUPANT:
Interviewed: Y/N/
Last Name: First Name:
Address:
Address: County: Usma Phone: Office Phone:
Home Phone: Office Phone:
Number of Occupants/persons at this location Age of Occupants MA
2. OWNER OR LANDLORD: (Check if same as occupant)
Interviewed: Y N
Last Name:First Name:
Address: 2146 Rorte 145, East Durham, M
County: 6 veene
Home Phone: 5/8 634 77240ffice Phone:
3. BUILDING CHARACTERISTICS
Type of Building: (Circle appropriate response)
Residential School Commercial/Multi-use Industrial Church Other:

imple 1D: V-8

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Page 2 of 8

imple 1D: V/8

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other
c. Basement floor:	concrete	dirt	stone	other 1
d. Basement floor:	uncovered	covered	covered with	R wood chips &
e. Concrete floor:	unsealed	sealed	sealed with	
f. Foundation walls:	poured	block	stone	other
g. Foundation walls:	unsealed	sealed	sealed with	inhitepaint-1114
h. The basement is:	(Wet)	damp	dry	moldy
i. The basement is:	finished	unfinished	partially fini	shed
j. Sump present?	YN			
k. Water in sump? Y/1	V / ηot applicable			
sement/Lowest level depth below	v grade:	(feet)		
entify potential soil vapor entry p	points and approx	ximate size (e.g.		
entify potential soil vapor entry p	points and approx	ximate size (e.g.		
Sasanh Forndati	n ficon walls	ximate size (e.g.	pen to	early early for outside w
entify potential soil vapor entry potential soil vapor entry possible for nda	n walls	ximate size (e.g.	pen to	to outside my
Forndation HEATING, VENTING and All	n walls	NG (Circle all the least that apply that we had a Radian	pen to	earty; to outside w
HEATING, VENTING and AII Hot air circulation Space Heaters Electric baseboard	CONDITIONII Heat pump Stream radiation	NG (Circle all the least that apply that we had a Radian	pen for at apply) y – note prima ater baseboard at floor	earty; to outside w
HEATING, VENTING and AII Hot air circulation Space Heaters Electric baseboard	CONDITIONII Heat pump Stream radiation	NG (Circle all the least that apply that we had a Radian	nat apply) y – note prima ater baseboard nt floor or wood boiler	earty; to outside w
HEATING, VENTING and AII Hot air circulation Space Heaters Electric baseboard e primary type of fuel used is: Natural Gas Electric Wood	CONDITIONII Heat pump Stream Fadiatio Wood stove Fuel Oil Propane	NG (Circle all the least that apply that we had an outdook Kerose	nat apply) y – note prima ater baseboard nt floor or wood boiler	earty; to outside w
HEATING, VENTING and AII Hot air circulation Space Heaters Electric baseboard e primary type of fuel used is: Natural Gas Electric	Continued approximately and approximately ap	NG (Circle all the least that apply Hot won Radian Outdook Kerose Solar	nat apply) y – note prima ater baseboard nt floor or wood boiler ene	earty; to outside w

Sample 1D: V-8

page 3 of 8

Are there air distribution ducts presen	ribution ducts present?
---	-------------------------



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.

				·	
				-	·
		DX.			
	/ .	C			

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

Almost Never

Basement

Storage - CVaw/Space

1st Floor

2nd Floor

2nd Floor

4th Floor

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

According to the storage

According to the storage

Cold of See it

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y

b. Does the garage have a separate heating unit?

Y/N/(\A)

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

Y/N/NA Please specify

d. Has the building ever had a fire?

Y/N When?

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

Y N Where?

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

Y (N) Y

Where & Type?

g. Is there smoking in the building?

vB

How frequently?

h. Have cleaning products been used recently?

Y(N)

When & Type?

i. Have cosmetic products been used recently?

Y/N

When & Type?

Sample 1D: V-8

page 4 of8

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?	N If yes, where vented?
o. Is there a clothes dryer?	Y/N If yes, is it vented outside? Y/N
p. Has there been a pesticide application?	Y/N When & Type? Lin Lunn
Are there odors in the building? If yes, please describe:	YN
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist	Y /N auto body shop, painting, fuel oil delivery,
If yes, what types of solvents are used?	<u> </u> A-
If yes, are their clothes washed at work?	Y(N)
Do any of the building occupants regularly use or work at a response)	a dry-cleaning service? (Circle appropriate
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	(No) ¹ Unknown
Is there a radon mitigation system for the building/structur Is the system active or passive? Active/Passive	re? Y/N Date of Installation:
9. WATER AND SEWAGE	Assumed (5)
Water Supply: Public Water Drilled Well Drive	en Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leach	h Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill resident	cial emergency)
a. Provide reasons why relocation is recommended:	
b. Residents choose to: remain in home relocate to fr	riends/family relocate to hotel/motel
c. Responsibility for costs associated with reimburseme	ent explained? Y/N
d. Relocation package provided and explained to reside	ents? Y/N

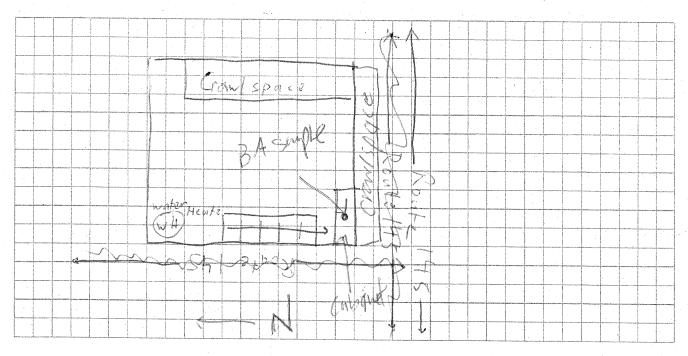
Sample iD: V.8

page 5 of 8

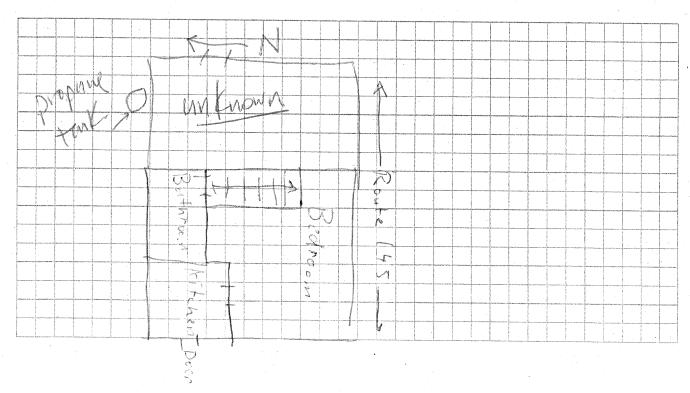
11. FLOOR PLANS

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

Basement:



First Floor:



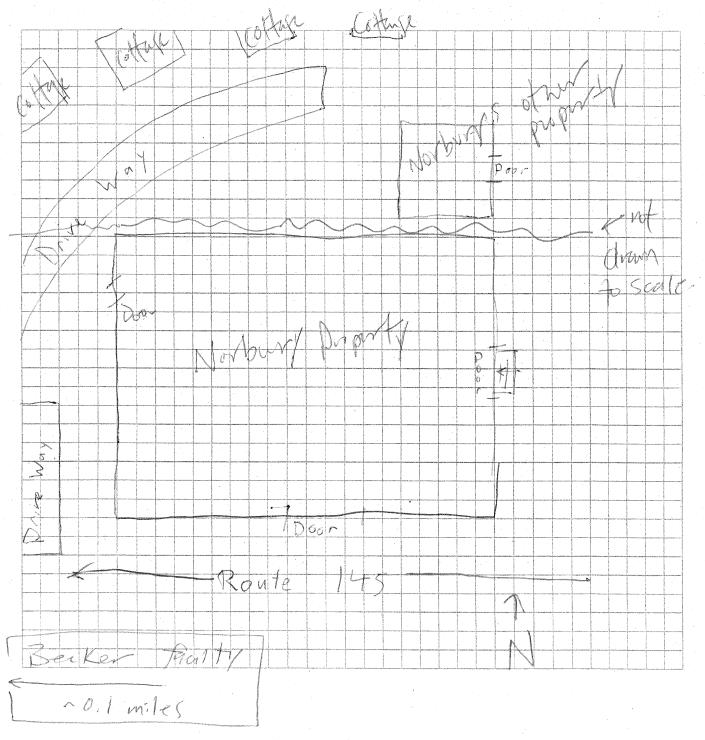
Sample 10: V8

Page 6 of 8

12. OUTDOOR PLOT

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

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



Sample 1D: V-8

Page 7 of 8

13. PRODUCT INVENTORY FORM

		- 1/1
	1 K / C 1 1 1 1 1 2 2 4 1 V	11/1
Make & Model of field instrument used:	DDD NAFAWS- UNITED	10/
		,

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
Basement	eligable gallon	I gal		eligable	0	N
Basement BKgd-O First Floor BKgd=O	N/A	V		N/A	28-13-13-13-13-13-13-13-13-13-13-13-13-13-	N. 11
Bkgl=0						
			U			

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

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Sample 10: V-8

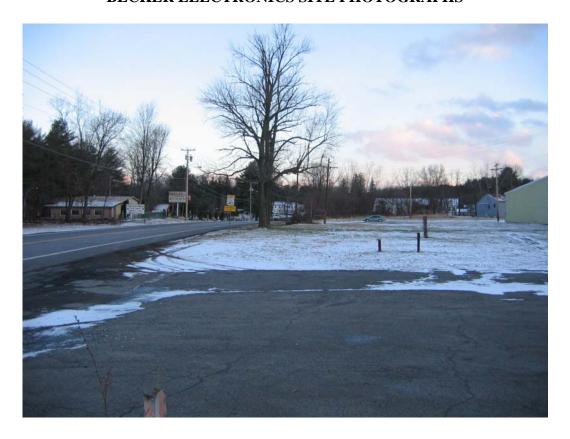
page 8-f8

^{**} 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.

ATTACHMENT D:

SITE PHOTOGRAPHS

BECKER ELECTRONICS SITE PHOTOGRAPHS

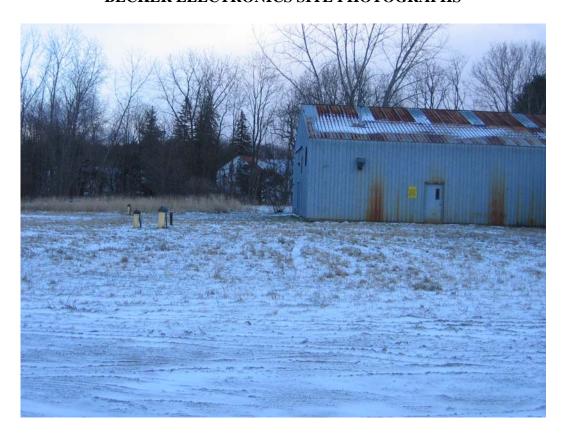


Site Property – View Looking Southwest



Extraction Well Pair – Old Chemical Storage Footprint. Page 1 of 3

BECKER ELECTRONICS SITE PHOTOGRAPHS



Treatment Building – View Looking Southwest.



Sub-Slab Summa Can Setup – Sample V-1. Page 2 of 3

BECKER ELECTRONICS SITE PHOTOGRAPHS



Indoor Air Sampling at V-9.



Basement Air Duplicate Sampling Setup at V-2. Page 3 of 3

ATTACHMENT E:

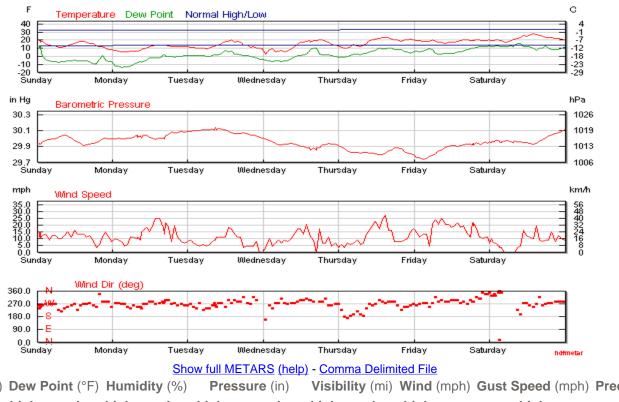
WEATHER



History for Albany, NY on Monday, February 5, 2007

February 5, 2007 Weekly Summary

Temperature	Max	Avg	Min	
Max Temperature	29 °F / -1 °C	21 °F / -6 °C	14 °F / -10 °C	
Mean Temperature	23 °F / -5 °C	15 °F / -9 °C	9 °F / -12 °C	
Min Temperature	16 °F / -8 °C	9 °F / -12 °C	3 °F / -16 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65	56	50	42	348
Cooling Degree Days (base 65)	0	0	0	0
Growing Degree Days (base 50)) 0	0	0	0
Dew Point	Max	Avg	Min	
Dew Point	16 °F / -8 °C	2 °F / -16 °C	-14 °F / -25 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	0.00 in / 0.0 cm	0.00 in / 0.0 cm	0.00 in / 0.0 cm	0.00 in / 0.00 cm
Snowdepth	2.0 in / 5 cm	1.2 in / 3 cm	1.0 in / 3 cm	-
Wind	Max	Avg	Min	
Wind	33 mph / 53 km/h	11 mph / 18 km/h	0 mph / 0 km/h	
Gust Wind	45 mph / 72 km/h	25 mph / 41 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.14 in / 1021 hPa	a 29.96 in / 1014 hP	a 29.74 in / 1007 hPa	a



Date Temperature (°F) Dew Point (°F) Humidity (%) Pressure (in) Visibility (mi) Wind (mph) Gust Speed (mph) Precipitation (in) Events high avg low h

February 30.04 29.98 29.91 10 T **Snow** 30.09 30.01 29.99 10 <u>5</u> -8 0.00 30.14 30.09 30.01 10 <u>6</u> T <u>7</u> 30.00 29.94 29.86 10 Т -7 **Snow** 29.89 29.85 29.80 10 Т -1 29.96 29.85 29.74 10 Т **Snow** 30.11 29.96 29.93 10 Т **Snow**



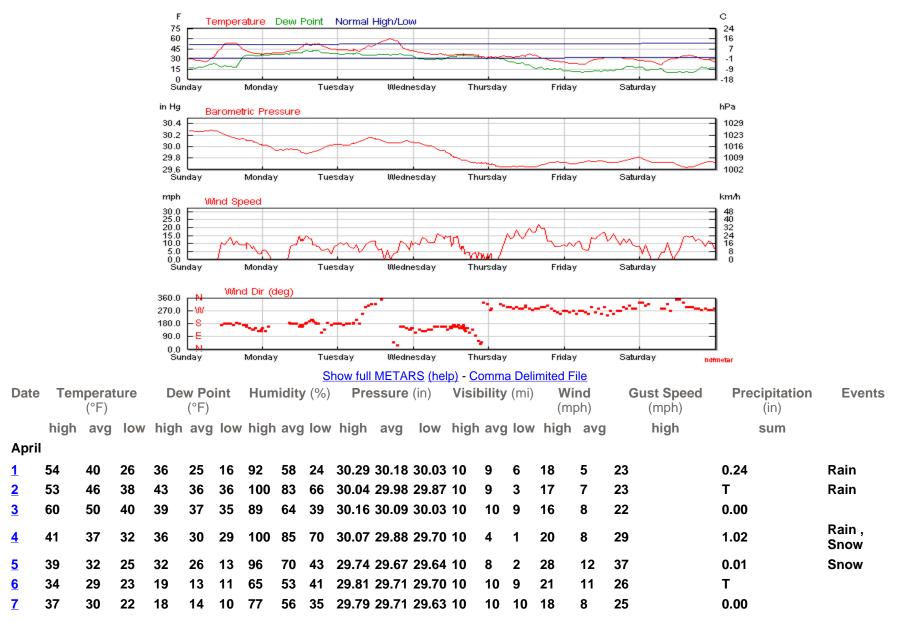
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History for Albany, NY on Monday, April 2, 2007

April 2, 2007 Weekly Summary

Temperature	Max	Avg	Min	
Max Temperature	60 °F / 15 °C	45 °F / 7 °C	34 °F / 1 °C	
Mean Temperature	50 °F / 10 °C	38 °F / 3 °C	29 °F / -1 °C	
Min Temperature	40 °F / 4 °C	29 °F / -1 °C	22 °F / -5 °C	
Degree Days	Max	Avg	Min	Sum
Heating Degree Days (base 65)	36	27	15	191
Cooling Degree Days (base 65)	0	0	0	0
Growing Degree Days (base 50)) 0	0	0	0
Dew Point	Max	Avg	Min	
Dew Point	43 °F / 6 °C	26 °F / -3 °C	10 °F / -12 °C	
Precipitation	Max	Avg	Min	Sum
Precipitation	1.02 in / 2.6 cm	0.26 in / 0.6 cm	0.00 in / 0.0 cm	1.27 in / 3.23 cm
Snowdepth	0.0 in / 0 cm	0.0 in / 0 cm	0.0 in / 0 cm	-
Wind	Max	Avg	Min	
Wind	28 mph / 45 km/h	8 mph / 13 km/h	0 mph / 0 km/h	
Gust Wind	37 mph / 60 km/h	20 mph / 33 km/h	16 mph / 26 km/h	
Pressure	Max	Avg	Min	
Pressure	30.29 in / 1026 hPa	a 29.89 in / 1012 hPa	a 29.63 in / 1003 hPa	l



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July 2007 Final

ATTACHMENT F:

DUSR

DATA USABILITY SUMMARY REPORT 2007 SAMPLING EVENT BECKER ELECTRONICS EAST DURHAM, NEW YORK

1.0 INTRODUCTION:

Groundwater and soil vapor samples were collected at the Becker Electronics site in February of 2007 and submitted for off-site laboratory analyses. Groundwater samples were analyzed by Katahdin Analytical Services located in Scarborough, ME. Soil vapor samples were analyzed by Air Toxics located in Folsom, CA. A listing of samples included in this investigation is presented in Table 1. A summary of the analytical results is presented in Attachment F, Tables 1.2-1.3. Samples were analyzed for the following parameters:

• Water: VOCs by EPA Method SW846 8260B

• Air: VOCs by EPA Method TO-15

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

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

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

J = concentration is estimated

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

E = Detection exceeded the upper calibration range of the instrument

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

2.0 AIR - VOLATILE ORGANIC COMPOUNDS

Initial Calibration

The initial calibration had a relative standard deviation that was greater than the control limit of 30 for methyl-tert-butyl ether (32). The results for MTBE in samples BEGV00110, BEGV00305, BEGV00509, BEGV00605, and BEGV00807 were qualified as estimated (J/UJ).

<u>Laboratory Duplicates</u>

The laboratory duplicate associated with sample BEGV00110 had a relative percent difference between the parent sample and duplicate that was greater than the control limit of 30 for 2-butanone (38). The result for 2-butanone in sample BEGV00110 was positive and was qualified as estimated (J).

Miscellaneous

Sample BEGV00807 had a detection for 1,1,1-trichloroethane that was greater than the calibration curve and the result was lab qualified with an "E." The sample was not reanalyzed due to the limited volume of sample and was qualified as estimated (J) during validation.

Samples BEGV00305 and BEGV00509 had final pressure readings of 0.0 inches of mercury when received by the laboratory. When the final pressure of the summa canister is zero, the sample canister finished filling before the end of the proposed sampling interval. Based on professional judgment the results for these samples were qualified as estimated (J/UJ).

3.0 WATER SAMPLES - VOLATILE ORGANIC COMPOUNDS

No data quality issues were identified and groundwater results are interpreted to be usable as reported by the laboratory.

TABLE 1
Sample Summary

SDG	Field Sample ID	Lab Sample ID	Method	Sample Date	Matrix	QC Code
SA0587	BEGW005	SA0587-3	SW8260	2/6/2007	GW	FS
SA0587	BEGW006	SA0587-4	SW8260	2/6/2007	GW	FS
SA0587	BEGW008	SA0587-1	SW8260	2/5/2007	GW	FS
SA0587	BEGW008DUP	SA0587-2	SW8260	2/5/2007	GW	FD
SA0587	BEMW004	SA0587-5	SW8260	2/6/2007	GW	FS
SA0587	BETB001	SA0587-6	SW8260	2/8/2007	BW	TB
0702222	BEGV00110	0702222-01B	TO15	2/7/2007	AIR	FS
0702222	BEGV00305	0702222-02B	TO15	2/7/2007	AIR	FS
0702222	BEGV00509	0702222-03B	TO15	2/7/2007	AIR	FS
0702222	BEGV00605	0702222-04B	TO15	2/7/2007	AIR	FS
0702222	BEGV00807	0702222-05B	TO15	2/7/2007	AIR	FS

Reference:

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

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

Data Validator: Amanda Zeidler

Signature Date April 17, 2007

Quality Assurance Officer: Chris Ricardi, NRCC-EAC

Date: 5/10/07

Attachment F
Table 1.1: Groundwater VOC Results

Lab Sample Id	SA0	587-1	SA0587-2		SA0:	587-3	SA0	587-4	SAO	587-5	SAO	587-6
Lab Sample Delivery Group		0587	SA	0587	SA)587	SA	0587	SA	0587	SA	0587
Loc Name		V-008	GW	V-008	GW	-005	GW	7-006	MW	7-004	(QC
Field Sample Id	BEG	W008	BEGW	008DUP	BEG	W005	BEG	W006	BEM	W004	BET	ГВ001
Field Sample Date	2/5/	2007	2/5/	2007	2/6/	2007	2/6/	2007	2/6/	2007	2/8/	/2007
Qc Code]	FS	I	FD	F	'S	I	FS	I	FS		ГВ
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	er Result Qual	
1,1,1,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1,1-Trichloroethane	7		7		5		10		10		1	U
1,1,2,2-Tetrachloroethane	1	U		U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	4		4		5		6		2		1	U
1,1-Dichloroethene	1	U	0.7	J	1	J	1	U	2		1	U
1,1-Dichloropropene	1	U	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	1	U	1	U	1	U	1	U	1	U	1	U
1,2,3-Trichloropropane	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-chloropropane	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	2	U		U	3		2	U	0.8	J	2	U
1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U	1	U
1,3,5-Trichlorobenzene	1	U	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	1	U		U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	1	U		U	1	U	1	U	-	U	1	U
1,3-Dichloropropane	1	U		U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	1	U		U	1	U	1	U	1	U	1	U
2,2-Dichloropropane	1	U		U	•	U	-	U		U	1	U
2-Butanone	5	U	5	U	5	U	5	U	5	U	5	U
2-Chlorotoluene	1	U		U	1	U	1	U	1	U		U
2-Hexanone	5	U	5	U	5	U	5	U	5	U	5	U
4-Chlorotoluene		U		U		U	1	U		U	1	U
4-iso-Propyltoluene	_	U	_	U		U		U		U		U
4-Methyl-2-pentanone		U	5	U	5			U	5	U	•	U
Acetone		U	9		5		10		8		4	J
Benzene	_	U		U	1	U	1	U		U	1	U
Bromobenzene	1	U	-	U	1	U		U	1	U	1	U
Bromochloromethane	1	U		U	1	U	1	U	_	U	1	U
Bromodichloromethane	1	U	1	U	1	U	1	U	1	U	1	U

Attachment F Table 1.1: Groundwater VOC Results

Lab Sample Id	SA0	587-1			SA0	587-3	SA0	587-4	SA0:	587-5	SA0	587-6
Lab Sample Delivery Group		0587	SA	0587	SA	587	SA	0587	SAC	0587	SA	0587
Loc Name	GW	'-008	GW	7-008	GW	-005	GW	7-006	MW	7-004	(QC
Field Sample Id	BEG	W008	BEGW	008DUP	BEG	W005	BEG	W006	BEMW004		BET	TB001
Field Sample Date	2/5/	2007	2/5/	2007	2/6/	2007	2/6/2007		2/6/2007		2/8/	/2007
Qc Code	I	rs	F	TD	I	S	FS		FS		7	ГВ
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Bromoform	1	U	-	U	1	U	1	U	1	U		U
Bromomethane	2	U	2	U	2	U	2	U	2	U	2	U
Carbon disulfide	1	U	1	U	1	U	1	U	1	U	1	U
Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	1	U	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	1	U	-	U	-	U	-	U	1		_	U
Chloroethane	2	U	2	U	2	U	2	U	2	U	2	U
Chloroform	1	U	1	U	1	U	1	U	1	U	1	U
Chloromethane	2	U	2	U	2	U	2	U	2	U		U
Cis-1,2-Dichloroethene	1	U		U	3		1	U	0.8	J		U
cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1			U
Dibromomethane	1	U		U	_	U	_	U	1	U	1	U
Dichlorodifluoromethane	2	U	2	U	2	U	2	U	2	U	2	U
Diethyl ether	1	U	1	U	1	U	1	U	1	U	1	U
Ethyl benzene	1	U		U	1	U	1	U	1	_		U
Hexachlorobutadiene	1	U	1	U	1	U	1	U	1	U		U
Isopropylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	1	U		U	•	U	1	U	1	-		U
Methylene chloride	5	U	5		5	U	5	-	5	_		U
n-Butylbenzene	1	U	•	U	1	U	1	U	1	~		U
Naphthalene	1	U		U	1	U		U	1			U
o-Xylene	1	U	1	U	1	U	1	U	1	U	1	U
Propylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
sec-Butylbenzene	1	U	1	U	1	U	1	U	1	U		U
Styrene	1	U	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene		U		U	0.7		1		1			U
Tetrahydrofuran	5	U	5	_	5	U		U	5			U
Toluene	•	U		U		U	_	U	1	-		U
trans-1,2-Dichloroethene	-	U	•	U		U		U		U		U
trans-1,3-Dichloropropene	1	U		U	1	U	1	U	1	U		U
Trichloroethene	0.9	J	0.8		4		-	U	2			U
Trichlorofluoromethane	2	U	2		2	U	2		2			U
Vinyl acetate	1	U	1	U	1	U	1	U	1	U	1	U

Attachment F Table 1.1: Groundwater VOC Results

Lab Sample Id	SA0587-1	SA0587-2	SA0587-3	SA0587-4	SA0587-5	SA0587-6
Lab Sample Delivery Group	SA0587	SA0587	SA0587	SA0587	SA0587	SA0587
Loc Name	GW-008	GW-008	GW-005	GW-006	MW-004	QC
Field Sample Id	BEGW008	BEGW008DUP	BEGW005	BEGW006	BEMW004	BETB001
Field Sample Date	2/5/2007	2/5/2007	2/6/2007	2/6/2007	2/6/2007	2/8/2007
Qc Code	FS	FD	FS	FS	FS	TB
Param Name	Result Qualifier					
Vinyl chloride	2 U	2 U	2 U	2 U	2 U	2 U
Xylene, m/p	2 U	2 U	2 U	2 U	2 U	2 U
Xylenes, Total	3 U	3 U	3 U	3 U	3 U	3 U

Notes:

Results in microgram per liter (μ g/L) Samples analyzed for VOCs by EPA Method SW846 8260B QC Code:

FS = Field Sample FD = Field Duplicate

TB = Trip Blank

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated value

Attachment F
Table 1.2: Soil Vapor VOC Results

Lab Sample Id	07022	22-01A	07022	22-02A	07022	22-03A	07022	22-04A	07022	22-05A
Lab Sample Delivery Group	702	2222	702	2222	702	2222	702	2222	70	2222
Loc Name	GV	7-001	GV	7-003	GV	-005	GV	'-006	GV-008	
Field Sample Id	BEG	V00110	BEG	V00305	BEG	V00509	BEG	V00605	BEG	V00807
Field Sample Date	2/7/	/2007	2/7/	2007	2/7/	2007	2/7/2007		2/7	/2007
Qc Code]	FS]	FS	J	FS]	FS]	FS
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	120		0.36	UJ	16	J	3.5		160	EJ
1,1,2,2-Tetrachloroethane	0.51	U	0.46	UJ	0.46	UJ	0.47	U	0.49	U
1,1,2-Trichloroethane	0.41	U	0.36	UJ	0.36	UJ	0.37	U	0.39	U
1,1-Dichloroethane	0.94		0.54	UJ	3.2	J	0.55	U	14	
1,1-Dichloroethene	3.8		0.53	UJ	1.1	J	0.54	U	11	
1,2,4-Trimethylbenzene	0.73	U	0.66	UJ	0.66	UJ	0.67	U	0.71	U
1,2-Dichloroethane	0.6	U	0.54	UJ	0.54	UJ	0.55	U	0.58	U
1,2-Dichloropropane	0.69	U	0.62	UJ	0.62	UJ	0.63	U	0.66	U
1,3,5-Trimethylbenzene	0.73	U	0.66	UJ	0.66	UJ	0.67	U	0.71	U
1,4-Dioxane	0.54	U	0.48	UJ	0.48	UJ	0.49	U	0.52	U
2-Butanone	20	J	9.8	J	6.2	J	5.6		5.4	
4-Ethyltoluene	0.73	U	0.66	UJ	0.66	UJ	0.67	U	0.71	
4-Methyl-2-pentanone	3.8		0.55	UJ	0.55	UJ	0.56	U	0.59	U
Benzene	17		10	J	2.2	J	17		5.5	
Bromomethane	0.58	U	0.52	UJ	0.52	UJ	0.53	U	0.56	U
Butadiene, 1,3-	2.7		0.3	UJ	0.88	J	2.7		0.32	
Chlorobenzene	0.68	-	0.62		0.62		0.63	-	0.66	
Chloroethane	0.39	U	0.35	UJ	0.35	UJ	0.36		0.38	U
Chloroform	1.5		0.05	J	0.83	J	0.66	U	1.2	
Chloromethane	0.31		0.28		0.28	UJ	0.28		0.3	-
Cis-1,2-Dichloroethene	0.59		0.53	UJ	0.62	J	0.54	U	0.57	U
cis-1,3-Dichloropropene	0.68	U	0.61	UJ	0.61	UJ	0.62	U	0.65	U
Cyclohexane	2.5		0.6	-	0.46		1.6		2.3	
Ethyl benzene	4.8		0.58	UJ	0.58		1		0.62	
Heptane	2.6		0.94		1.4		3.3		1.3	
Hexane	4.5		2.3		3.7		6		1.8	
Isopropylbenzene	0.73	U	0.66		0.66		0.67	U	0.71	
Methyl Tertbutyl Ether	4	J	3.2		0.48		0.79	J	1.4	
o-Xylene	2.8		0.58		0.58		0.73		0.62	-
Propylbenzene	0.73		0.66		0.66		0.67		0.71	-
Styrene	0.63	U	0.57		0.57		0.58	U	0.61	
Tetrachloroethene	54		1.8		2.5		12		5.6	
Toluene	96			J	5.1		33		19	
trans-1,2-Dichloroethene	0.59	U	0.53	UJ	0.53	UJ	0.54	U	0.57	U

Attachment F Table 1.2: Soil Vapor VOC Results

Lab Sample Id	07022	22-01A	07022	22-02A	07022	22-03A	07022	22-04A	0702222-05A	
Lab Sample Delivery Group	702	702222		702222		702222		2222	702	2222
Loc Name	GV	GV-001		GV-003		GV-005		7-006	GV	7-008
Field Sample Id	BEG	BEGV00110		BEGV00305		BEGV00509		V00605	BEG	V00807
Field Sample Date 2/7/2007		2/7/2007		2/7/2007		2/7/2007		2/7/2007		
Qc Code]	FS		FS		FS		FS		FS
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
trans-1,3-Dichloropropene	0.68	U	0.61	UJ	0.61	UJ	0.62	U	0.65	U
Trichloroethene	0.76		0.19	J	0.99	J	0.17		1.4	
Vinyl chloride	0.38	U	0.34	UJ	0.34	UJ	0.35	U	0.37	U
Xylene, m/p	11		0.69	J	1.4	J	2.5		1.3	

Notes:

Results in microgram per cubic meter (μ g/m3) Samples analyzed for VOCs by EPA Method TO-15

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

E = Result exceeds the upper calibration range of the analytical instrument

DATA USABILITY SUMMARY REPORT 2007 SAMPLING EVENT BECKER ELECTRONICS EAST DURHAM, NEW YORK

Introduction:

Fifteen air samples were collected at the Becker Electronics site in April of 2007 and submitted for off-site laboratory analyses. Samples were analyzed by Air Toxics located in Folsom, CA. A listing of samples included in this investigation is presented in Table 1. A summary of the analytical results is presented in Attachment F, Table 1.1. Samples were analyzed for the following parameters:

• Air: VOCs by EPA Method TO-15

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

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

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

J = concentration is estimated

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

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

Air - Volatile Organic Compounds

Field Duplicates

Sample 420007BA002 and its field duplicate had a relative percent difference that was greater than the control limit of 30 for 2-butanone (53). The results for 2-butanone in samples 420007BA002 and 420007BA002-DUP were qualified as estimated (J).

Continuing Calibration

The continuing calibration verification had percent differences between the initial and continuing calibration response factors that were greater than the control limit of 25 for 1,2-dichloroethane (-29) and 1,1,2,2-tetrachloroethane (-30). The results for these compounds were non-detect in the samples listed below and were qualified as estimated (UJ).

Sample ID	1,2-dichloroethane Final Result/Qualifier	1,1,2,2-tetrachloroethane Final Result/Qualifier
420007SS002	0.79 UJ	0.67 UJ
420007BA002	0.62 UJ	0.52 UJ
420007BA002-DUP	0.69 UJ	0.59 UJ
420007FA002	0.62 UJ	0.52 UJ
420007FA002-DUP	0.63 UJ	0.53 UJ
420007AA002	0.58 UJ	0.49 UJ
420007SS011	0.62 UJ	0.52 UJ
420007BA010	0.58 UJ	0.49 UJ
420007AA010	0.58 UJ	0.49 UJ
420007SS001	0.55 UJ	0.47 UJ

TABLE 1 Sample Summary

		Lab Sample				QC
SDG	Field Sample ID	ID	Method	Sample Date	Matrix	Code
0704135A	420007SS002	0704135A-01	TO-15	4/2/07	Air	FS
0704135A	420007BA002	0704135A-02	TO-15	4/2/07	Air	FS
0704135A	420007BA002-DUP	0704135A-03	TO-15	4/2/07	Air	FD
0704135A	420007FA002	0704135A-04	TO-15	4/2/07	Air	FS
0704135A	420007FA002-DUP	0704135A-05	TO-15	4/2/07	Air	FD
0704135A	420007AA002	0704135A-06	TO-15	4/2/07	Air	FS
0704135A	420007SS011	0704135A-07	TO-15	4/2/07	Air	FS
0704135A	420007BA010	0704135A-08	TO-15	4/3/07	Air	FS
0704135A	420007AA010	0704135A-09	TO-15	4/3/07	Air	FS
0704135A	420007SS001	0704135A-10	TO-15	4/3/07	Air	FS
0704135B	420007SS009	0704135B-11	TO-15	4/3/07	Air	FS
0704135B	420007BA009	0704135B-12	TO-15	4/3/07	Air	FS
0704135B	420007FA009	0704135B-13	TO-15	4/3/07	Air	FS
0704135B	420007AA009	0704135B-14	TO-15	4/3/07	Air	FS
0704135B	420007BA008	0704135B-15	TO-15	4/3/07	Air	FS

Reference:

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

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

Data Validator: Amanda Zeidler

Signature Date May 1, 2007

Quality Assurance Officer: Chris Ricardi, NRCC-EAC

Date: 5/10/07

Lab Sample Id	0704135A-01A	0704135A-02A	0704135A-03A	0704135A-04A	0704135A-05A
Lab Sample Delivery Group	0704135A	0704135A	0704135A	0704135A	0704135A
Loc Name	SS-002	BA-002	BA-002	FA-002	FA-002
Field Sample Id	420007SS002	420007BA002	420007BA002-DUP	420007FA002	420007FA002-DUP
Field Sample Date	4/2/2007	4/2/2007	4/2/2007	4/2/2007	4/2/2007
Qc Code	FS	FS	FD	FS	FD
Param Name	Result Qualifier				
1,1,1-Trichloroethane	1.2	0.41 U	0.47 U	0.41 U	0.42 U
1,1,2,2-Tetrachloroethane	0.67 UJ	0.52 UJ	0.59 UJ	0.52 UJ	0.53 UJ
1,1,2-Trichloroethane	0.53 U	0.41 U	0.47 U	0.41 U	0.42 U
1,1-Dichloroethane	0.79 U	0.62 U	0.69 U	0.62 U	0.63 U
1,1-Dichloroethene	0.78 U	0.6 U	0.68 U	0.6 U	0.61 U
1,2,4-Trimethylbenzene	0.96 U	1.7	1.4	0.84	1
1,2-Dichloroethane	0.79 UJ	0.62 UJ	0.69 UJ	0.62 UJ	0.63 UJ
1,2-Dichloropropane	0.9 U	0.7 U	0.79 U	0.7 U	0.72 U
1,3,5-Trimethylbenzene	0.96 U	0.75 U	0.84 U	0.75 U	0.76 U
1,4-Dioxane	0.71 U	0.55 U	0.62 U	0.55 U	0.56 U
2-Butanone	23	2.4 J	1.4 J	0.94	1.3
4-Ethyltoluene	0.96 U	1.6	1.6	0.99	1
4-Methyl-2-pentanone	0.8 U	0.62 U	0.7 U	0.62 U	0.63 U
Benzene	2.9	2	1.8	1.9	2
Bromomethane	0.76 U	0.59 U	0.66 U	0.59 U	0.6 U
Butadiene, 1,3-	0.43 U	0.34 U	0.38 U	0.34 U	0.34 U
Chlorobenzene	0.9 U	0.7 U	0.79 U	0.7 U	0.71 U
Chloroethane	0.52 U	0.4 U	0.45 U	0.4 U	0.41 U
Chloroform	39	0.74 U	0.83 U	3.2	2.6
Chloromethane	0.4 U	0.73	0.61	0.92	0.85
Cis-1,2-Dichloroethene	0.78 U	0.6 U	0.68 U	0.6 U	0.61 U
cis-1,3-Dichloropropene	0.89 U	0.69 U	0.78 U	0.69 U	0.7 U
Cyclohexane	0.67 U	0.52 U	0.59 U	0.52 U	0.53 U
Ethyl benzene	0.85 U	1.8	1.5	0.84	0.96
Heptane	0.88	0.96	0.73	0.69	0.79
Hexane	0.69 U	1.2	0.91	0.78	0.96
Isopropylbenzene	0.96 U	0.75 U	0.84 U	0.75 U	0.76 U
Methyl Tertbutyl Ether	0.71 U	0.55 U	0.62 U	0.55 U	0.56 U
o-Xylene	0.85 U	1.7	1.6	0.91	0.9
Propylbenzene	0.96 U	0.75 U	0.84 U	0.75 U	0.76 U
Styrene	0.83 U	0.65 U	0.73 U	0.65 U	0.66 U
Tetrachloroethene	0.66 U	0.52 U	0.58 U	0.52 U	0.52 U
Toluene	2.4	12	10	7.2	7.6
trans-1,2-Dichloroethene	0.78 U	0.6 U	0.68 U	0.6 U	0.61 U

Lab Sample Id	070413	0704135A-01A		5A-02A	070413	5A-03A	070413	5A-04A	0704135A-05A	
Lab Sample Delivery Group	0704	0704135A		0704135A		0704135A		135A	0704	135A
Loc Name	SS-	SS-002		BA-002		BA-002		FA-002		-002
Field Sample Id	42000′	420007SS002		420007BA002		420007BA002-DUP		7FA002	420007FA002-DUI	
Field Sample Date	4/2/	4/2/2007		4/2/2007		4/2/2007		4/2/2007		2007
Qc Code	I	TS .	FS		FD		FS		FD	
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
trans-1,3-Dichloropropene	0.89	U	0.69	U	0.78	U	0.69	U	0.7	U
Trichloroethene	0.21	U	0.16	U	0.18	U	0.16	U	0.17	U
Vinyl chloride	0.5	U	0.39	U	0.44	U	0.39	U	0.4	U
Xylene, m/p	0.99		5.6		4.8		2.8		2.9	

Notes:

Results in microgram per cubic meter ($\mu g/m3$) Samples analyzed for VOCs by EPA Method TO-15

QC Code:

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Qualifiers:

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J = Estimated value

Lab Sample Id	Lab Sample Id 0704135A-06B				070413	5A-08B	070413	5A-09A	070413	5A-10A
Lab Sample Delivery Group	0704	135A	0704	135A	0704	135A	0704	135A	0704	135A
Loc Name	AA	-002	SS	-011	BA	-010	AA	-010	SS-	001
Field Sample Id	420007	'AA002	42000′	7SS011	420007	7BA010	420007	7AA010	42000	7SS001
Field Sample Date	4/2/	2007	4/2/	2007	4/3/	2007	4/3/	2007	4/3/2	2007
Qc Code	F	rs	F	FS	I	FS	I	FS	F	'S
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.6		0.64		0.39	U	0.39	U	1.7	
1,1,2,2-Tetrachloroethane	0.49	UJ	0.52	UJ	0.49	UJ	0.49	UJ	0.47	UJ
1,1,2-Trichloroethane	0.39	U	0.41	U	0.39	U	0.39	U	0.37	U
1,1-Dichloroethane	0.58	U	0.62	U	0.58	U	0.58	U	0.55	U
1,1-Dichloroethene	0.57	U	0.6	U	0.57	U	0.57	U	0.54	U
1,2,4-Trimethylbenzene	0.82		0.75		0.71		0.71		0.67	
1,2-Dichloroethane	0.58	UJ	0.62	UJ	0.58	UJ	0.58		0.55	
1,2-Dichloropropane	0.66	U	0.7	_	0.66	-	0.66		0.63	
1,3,5-Trimethylbenzene	0.71	U	0.75	U	0.71	U	0.71	U	0.67	U
1,4-Dioxane	0.52	U	0.55	U	0.52	U	0.52	U	0.49	U
2-Butanone	5.5		35		1.3		12		0.4	U
4-Ethyltoluene	0.71		0.75		0.71		0.71		0.67	
4-Methyl-2-pentanone	0.59	U	0.62	U	0.59	U	0.59	U	0.56	U
Benzene	1.2		41		0.8		0.75		0.67	
Bromomethane	0.56	-	0.59		0.56	-	0.56		0.53	
Butadiene, 1,3-	0.32		0.34		0.32		0.32	U	0.3	
Chlorobenzene	0.66	U	0.7	U	0.66	U	0.66	U	0.63	U
Chloroethane	0.38	-	0.4	-	0.38		0.38	U	0.36	U
Chloroform	0.7	U	0.74	U	0.7	U	0.7	U	4.8	
Chloromethane	0.76		0.62		1		1.6		0.28	
Cis-1,2-Dichloroethene	0.57		0.6		0.57	U	0.57	U	0.54	U
cis-1,3-Dichloropropene	0.65	U	0.69	U	0.65	_	0.65		0.62	
Cyclohexane	1.3		37		0.5		0.5	_	0.47	
Ethyl benzene	0.72		1.3		0.62		0.62	_	0.59	
Heptane	0.59		58		0.59		0.59		0.56	
Hexane	0.65		120		0.51		0.51		0.48	
Isopropylbenzene	0.71		0.75		0.71		0.71		0.67	
Methyl Tertbutyl Ether	0.52		0.55	-	0.52		0.52		0.49	
o-Xylene	0.62		0.66	-	0.62		0.62		0.59	
Propylbenzene	0.71		0.75		0.71		0.71		0.67	
Styrene	0.61	U	0.65		0.61		0.61	_	0.58	
Tetrachloroethene	1.2		0.52	U	0.49		0.49	U	0.46	U
Toluene	6.1		19		2		1.6		1.6	
trans-1,2-Dichloroethene	0.57	U	0.6	U	0.57	U	0.57	U	0.54	U

Lab Sample Io	070413	0704135A-06B		5A-07B	070413	5A-08B	0704135A-09A		0704135A-10A	
Lab Sample Delivery Group	0704	0704135A		0704135A		0704135A		135A	0704135A	
Loc Name	AA	AA-002		SS-011		BA-010		-010	SS-001	
Field Sample Io	420007	420007AA002		420007SS011		420007BA010		'AA010	420007SS001	
Field Sample Date	4/2/	4/2/2007		4/2/2007		4/3/2007		4/3/2007		2007
Qc Code	e I	FS	FS		FS		FS		FS	
Param Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
trans-1,3-Dichloropropene	0.65	U	0.69	U	0.65	U	0.65	U	0.62	U
Trichloroethene	0.15	U	0.18		0.15	U	0.86		0.15	U
Vinyl chloride	0.37	U	0.39	U	0.37	U	0.37	U	0.35	U
Xylene, m/p	1.6		1.3		0.62	U	0.77		0.88	

Notes:

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Lab Sample Id	0704135B-11A		0704135B-12B		0704135B-13A		0704135B-14A		0704135B-15A		
Lab Sample Delivery Group			0704135B		0704135B		0704135B		0704	0704135B	
Loc Name	SS-009		BA-009		FA-009		AA-009		BA-008		
Field Sample Id	420007SS009		420007BA009		420007FA009		420007AA009		420007BA008		
Field Sample Date	4/3/	4/3/2007		4/3/2007		4/3/2007		4/3/2007		4/3/2007	
Qc Code	FS										
Param Name	Result	Qualifier									
1,1,1-Trichloroethane	220		3.3		1.1		0.44	U	0.46	U	
1,1,2,2-Tetrachloroethane	0.56	U	0.54	U	0.69	U	0.55	U	0.58	U	
1,1,2-Trichloroethane	0.45	U	0.43	U	0.55	U	0.44	U	0.46	U	
1,1-Dichloroethane	31		0.64	U	0.81	U	0.65	U	0.68	U	
1,1-Dichloroethene	4.3		0.63	U	0.8	U	0.64	U	0.67	U	
1,2,4-Trimethylbenzene	0.81		0.78		0.99	-	0.79		0.82		
1,2-Dichloroethane	0.66		0.64		0.81	U	0.65		0.68		
1,2-Dichloropropane	0.76	U	0.73	U	0.93	-	0.74	U	0.78	U	
1,3,5-Trimethylbenzene	0.81		0.78		0.99		0.79		0.82	U	
1,4-Dioxane	0.59	U	0.57	U	0.72	U	0.58	U	0.6	U	
2-Butanone	1.7		0.72		2.2		8.4		0.5	U	
4-Ethyltoluene	0.81		0.78		0.99		0.79		0.82	U	
4-Methyl-2-pentanone	0.67	U	0.65	U	0.82	U	0.66	U	0.69	U	
Benzene	1.4		0.7		1.2		0.51	U	0.54	U	
Bromomethane	0.64	U	0.61	U	0.78	U	0.62	U	0.65	U	
Butadiene, 1,3-	0.36	U	0.35		0.44	U	0.36	U	0.37	U	
Chlorobenzene	0.76		0.73	U	0.92	U	0.74	U	0.77	U	
Chloroethane	0.43	U	0.42	U	0.53	U	0.42	U	0.44		
Chloroform	5.6		0.77	U	0.98	U	0.79	U	0.82	U	
Chloromethane	0.34		0.63		1.2		0.96		0.85		
Cis-1,2-Dichloroethene	0.65	U	0.63	U	0.8	U	0.64		0.67	U	
cis-1,3-Dichloropropene	0.74	U	0.72	U	0.91	U	0.73	U	0.76	U	
Cyclohexane	0.56		0.54	U	0.69	U	0.55	U	0.58	U	
Ethyl benzene	0.71	U	0.69	,	0.87		0.7	U	0.73		
Heptane	0.83		0.65		0.82		0.66		0.69		
Hexane	0.71		0.56	U	0.71	U	0.57	U	0.59		
Isopropylbenzene	0.81		0.78		0.99		0.79		0.82	U	
Methyl Tertbutyl Ether	0.59		0.57		0.72		0.58		0.6	-	
o-Xylene	0.71		0.69		0.87		0.7		0.73		
Propylbenzene	0.81		0.78	U	0.99	U	0.79		0.82	U	
Styrene	0.7	U	0.67	U	0.86		0.68	U	0.72	U	
Tetrachloroethene	1.6		0.54	U	0.68	U	0.55	U	0.57	U	
Toluene	3.6		1.7		5.4		1.1		0.63	U	
trans-1,2-Dichloroethene	0.65	U	0.63	U	0.8	U	0.64	U	0.67	U	

Lab Sample Id	0704135B-11A		0704135B-12B		0704135B-13A		0704135B-14A		0704135B-15A	
Lab Sample Delivery Group	0704135B									
Loc Name	SS-009		BA-009		FA-009		AA-009		BA-008	
Field Sample Id	420007SS009		420007BA009		420007FA009		420007AA009		420007BA008	
Field Sample Date	4/3/2007		4/3/2007		4/3/2007		4/3/2007		4/3/2007	
Qc Code	FS									
Param Name	Result	Qualifier								
trans-1,3-Dichloropropene	0.74	U	0.72	U	0.91	U	0.73	U	0.76	U
Trichloroethene	25		0.27		0.22	U	0.17	U	0.18	U
Vinyl chloride	0.42	U	0.4	U	0.51	U	0.41	U	0.43	U
Xylene, m/p	1.4		0.75		0.84	J	0.7	U	0.73	U

Notes:

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