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**ENVIRONMENTAL MANAGEMENT, LTD.**

*On the Lake @ 41 Franck Road, Stony Point, New York 10980*

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October 30, 2009

Nicole M. Bonsteel, P.E.  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Remedial Bureau E  
625 Broadway, 12<sup>th</sup> Floor  
Albany, New York 12233-7017

**Re: Post-Remedial Annual Report, Year 1 (August 2008-July 2009)**  
**Kings Electronics Co., Inc./Weissman Holdings, Inc. (Kings)**  
**VCP #V00237-3**  
**40 Marbledale Road**  
**Tuckahoe, Westchester County, NY**

Dear Ms. Bonsteel:

On behalf of Weissman Holdings, Inc., formerly Kings Electronics Co., Inc. (Kings), Environmental Management, Ltd. (EML) submits this Annual Report and Evaluation in connection with the post-remedial operations, maintenance and monitoring (OM&M) activities for the site located at 40 Marbledale Road, Tuckahoe, Westchester County (the Site). This report is for the year ending July 31, 2009, which includes the first four quarters of post-remedial groundwater monitoring.

**Groundwater Monitoring**

A "Post-Remedial Annual Report and Project Evaluation for On-Site Groundwater-Year 1" prepared and certified by ARCADIS is being submitted herewith under separate cover and incorporated by reference. Groundwater sampling was carried out quarterly, in October 2008, and in January, April, and July 2009. ARCADIS's report summarizes these four quarters of monitoring and includes the following:

- A location map;
- A site map;
- All quarterly monitoring data, including test methods, analytical reports, summary data tables and a Site map with sampling locations and any corresponding significant analytical values;
- A description of the annual inspections of the Injection and On-Site Monitoring Wells with Monitoring Well Field Inspection Logs attached, as well as a description of any damage and/or repairs in connection with any injection or monitoring well; and
- Comments, conclusions and recommendations based on an evaluation of groundwater monitoring results, injection and monitoring well integrity.

## **On-Site Sub-Slab Depressurization (SSD) System**

The SSD System at the site became operational in March 2008. An On-Site OM&M/Site Management Plan for Sub Slab Depressurization Installed at Storage Deluxe dated May 16, 2008 (the SSD OM&M Plan) was approved by NYSDEC and NYSDOH (the State) on August 6, 2008.

Pursuant to the SSD OM&M Plan, on March 12, 2009, post-mitigation indoor air quality (IAQ) testing for the Storage Deluxe facility was carried out by EML and Geovation Engineering, PC (Geovation) personnel. EML's IAQ report was submitted to NYSDEC on June 29 and is included in Attachment A. No further air monitoring is required.

In addition, inspection and routine maintenance of the SSD system was carried out in accordance with the SSD OM&M Plan on May 21, 2009 by Bruce Munson, Project Manager, EML and Nick Mouganis, President Mitigation Tech (the SSD installer). An "OM&M Report (Routine Maintenance)" was prepared and submitted to the State on August 10, 2009, a copy of which is included as Attachment B. Based on the results of the inspection and routine maintenance, Mr. Mouganis certified the continued effectiveness of the on-site SSD system (see Attachment B, Exhibit 5, p.2). A SSD Annual Certification prepared by EML, as required by Section 8 of the SSD OM&M Plan, is included as Attachment C.

## **Soil**

Areas of residual soil contamination at the Site (below the 6 NYCRR Part 375 Restricted Use Commercial Soil Cleanup Objective for the Protection of Public Health) are located beneath the building foundation (immediately south of the former Kings degreaser area and within the sub-slab soils adjacent to GP-104R and GP-103R) or asphalt surface (within the central alley.) NYSDEC agreed to allow Kings to address this soil as part of a Deed Restriction, which has not yet been approved or filed. It is anticipated that the Deed Restriction will prohibit any disturbance of the Site's sub-surface soil or its current building foundations and asphalt cover (the Soil Cover) except in accordance with a NYSDEC approved Site-specific Soil Management Plan (SMP) and Health and Safety Plan (HASP).

A Figure showing the existing soil cover (i.e.; building foundations and asphalt cover after the State approved renovations by the current owner were completed) is attached, "Surface Area Showing Buildings, Asphalt/Concrete, Bedrock Outcrops and Soil."

This Post-Remedial Annual Report confirms that Kings has not engaged in any subsurface or soil cover disturbance activities. (The current owner/operator has a State-approved Soil Management Plan in connection with its activities.) This Report also confirms that the Site's soil cover remains intact (i.e., as it appears on the Figure) and its configuration remains unchanged.

Very truly yours,

**Environmental Management, Ltd.**

*Donald J. Wanamaker*

Donald J. Wanamaker  
President

pc:

Carl Obermeyer  
Bureau of Environmental Exposure Investigation  
Monticello District Office  
50 North Street, Suite 2  
Monticello, New York 12701-1711

Mr. James Moras  
Environmental Engineer II  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, Remedial Bureau E  
625 Broadway, 12th Floor  
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William E. Wertz, Ph.D.  
Senior Engineering Geologist  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
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Mark VanValkenburg  
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Mid Hudson Section  
New York State Department of Health  
Flanigan Square, 547 River Street – 3<sup>rd</sup> Floor  
Troy, NY 12180-2216

Michael Lesser  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
Albany, New York 12233-5500

Charles Goldberger, Esq.  
McCullough, Goldberger & Staudt  
1311 Mamaroneck Avenue  
White Plains, New York 10605

# FIGURE

Surface Area Showing Buildings, Asphalt/Concrete,  
Bedrock Outcrops, and Soil

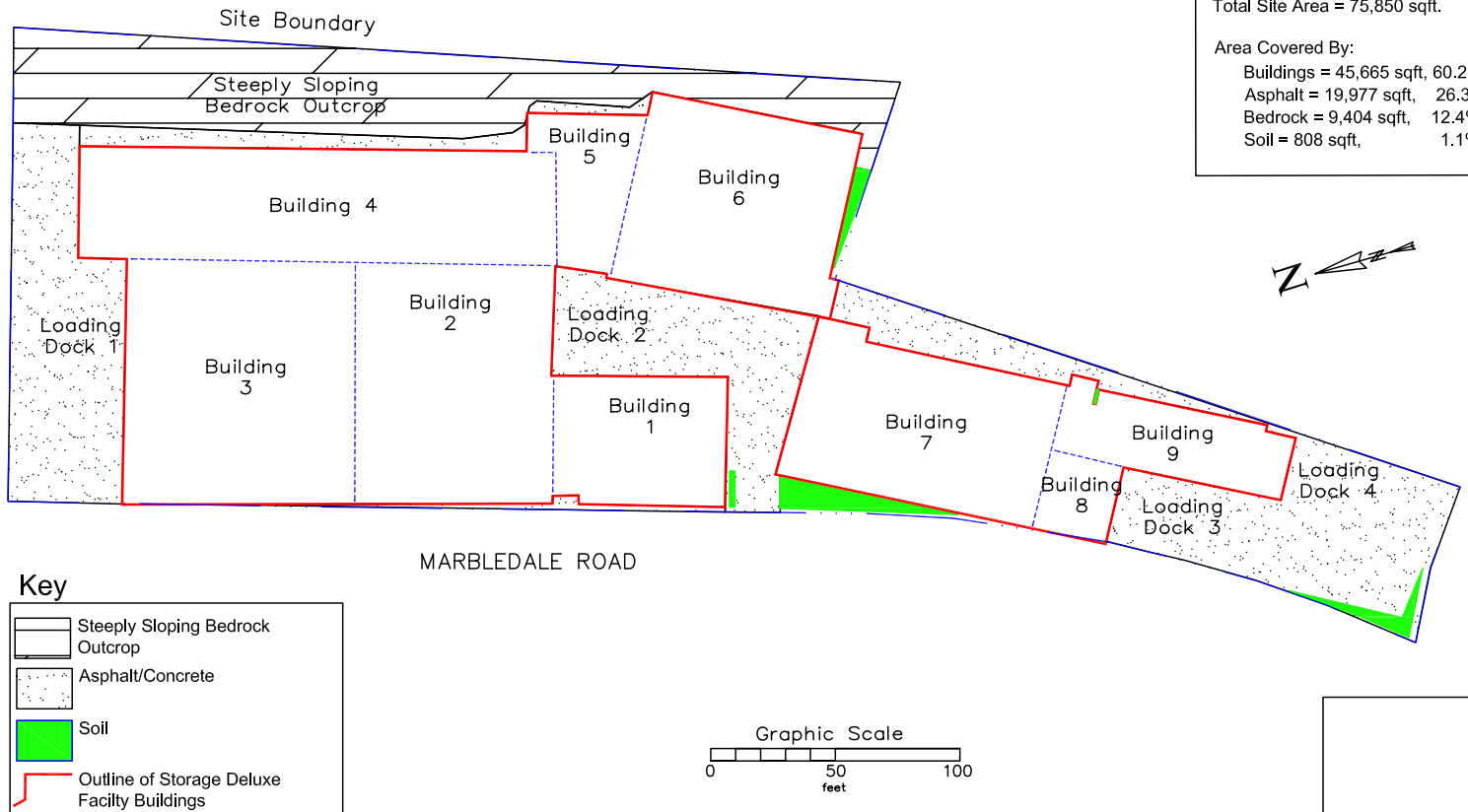


## Area Calculations

Total Site Area = 75,850 sqft.

### Area Covered By:

Buildings = 45,665 sqft,	60.2%
Asphalt = 19,977 sqft,	26.3%
Bedrock = 9,404 sqft,	12.4%
Soil = 808 sqft,	1.1%



Location of site boundary line and site features approximate

Figure based on: 9/17/08 Survey Map Prepared by Arcadis reliant upon 9/21/2000 Survey of Lot 2 as shown on subdivision map prepared for Kings Electronics, Co., Inc., by Gabriel E. Senor, P.C., Drawing No. S-1,

Professional Engineer  
Robert Zimmer NYS PE  
#082496

**GEOVATION**  
Engineering, P.C.  
*Innovative Solutions to Environmental Problems*  
468 Rte. 17A, P.O. Box 293  
Florida, New York 10921

Surface Area Showing Buildings, Asphalt/Concrete, Bedrock Outcrops and Soil. (Building Numbers also shown on Figure)  
Storage Deluxe Facility/Former Kings Electronics Co., Inc.  
40 Marbledale Rd., Tuckahoe, NY

# ATTACHMENT A

To Post-Remedial Annual Report

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**Post-Mitigation Indoor Air Quality Testing  
40 Marbledale Road, Tuckahoe, Westchester County, NY  
Formerly Kings Electronics Co., Inc.  
Site No. V 00234-3  
June 2009**

On behalf of Weissman Holdings, Inc. (formerly Kings Electronics Co., Inc.), and in accordance with the *Sampling and Analytical Procedure for Post-Mitigation Indoor Air Sampling* as submitted in March 2009, Environmental Management, Ltd. (EML) performed indoor/outdoor air testing at 40 Marbledale Road (currently a self storage facility operated by Storage Deluxe) on March 12, 2009.

This report (designed as an Addendum to the NYS Department of Environmental Conservation and the NYS Department of Health approved Operation, Maintenance & Monitoring Plan) summarizes the March 2009 test results.

### **A. Storage Deluxe Post Mitigation Indoor Air Quality (IAQ) Sampling Locations**

Post mitigation IAQ sampling sites were selected within all areas where a SSD system had been installed. Sampling was conducted in all buildings where pre-mitigation samples were collected. Two additional locations were needed.

Diagrams of Building A and Building B of this facility (Attachment A) identify each of the seven locations sampled as follows:

- SSD-1, Showroom area of Building 1.
- SSD-2 #1155, Central corridor of Building 3, near the site of the former degreaser.
- SSD-3 #1027, Central East/West corridor of Building 2.
- SSD-4 #1325, North central corridor of Building 6.
- SSD-5 #0054, Western corridor of Building 7 basement.
- SSD-6 #1444, Central corridor of Building 9.
- Outdoor sample near the Loading Dock of Building 3.

### **B. Preparation for Post Mitigation IAQ Sampling**

On February 19, 2009, EML conducted a pre-sampling inspection and inventory. The standard “New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory” prescribed by the Center for Environmental Health was completed (Attachment B). A visual inspection of the Showroom identified items for sale, such as cardboard boxes and packaging materials (e.g.; plastic peanuts, foam and bubble wrap). The Maintenance Room, in Building 2, contained a variety of cleaning, painting and pesticide

*Indoor/Outdoor Air Quality Sampling Report*

*Storage Deluxe*

*Tuckahoe, NY*

*June 2009*

supplies, as well as gasoline powered tools. Individual customer storage units were either locked (i.e.; not accessible) or empty (i.e.; not yet rented).

In preparation for sampling, 6-liter Summa canisters (certified clean and each having a vacuum pressure of - 29.5 inches Hg) and flow controllers calibrated for 8-hour collection periods, were obtained from Columbia Analytical Services, Inc. Air Quality Laboratory (CAS), located in Simi Valley, California (NELAP certified; NY lab ID No:11221).

### **C. Post Mitigation IAQ Sampling Plan**

For purposes of indoor air quality in each area with a sub-slab depressurization system, IAQ sampling was performed to evaluate concentrations of contaminants of concern, and for comparison, concentrations in the ambient, outdoor air.

### **D. Post Mitigation IAQ Sampling Procedure**

Indoor air samples were obtained at seven locations using eight 6-liter Summa canisters as described above. Each 6-liter Summa canister, equipped with a flow controller that was lab-calibrated for 8-hour sampling, was set at approximately 3 1/2 to 4 ft. height (within the “living/breathing zone”). Sample start time was approximately between 9:00 and 10:00 a.m. and stop time was approximately between 4:30 and 5:30 p.m. on March 12, 2009. At the end of the sampling period, the canister valve was closed and the flow controller removed. All data was recorded on the Chain of Custody (included within attachment C). Sampling locations are indicated within the Storage Deluxe (SD) floor plans included as Attachment A.

### **E. Laboratory Analysis**

All Summa canister samples and the trip blank from the March 12, 2009 sampling event were shipped with Chain of Custody, via Federal Express, to CAS.

All samples were analyzed for volatile organic compounds utilizing USEPA Method TO-15 (full parameter list) with laboratory data deliverables Category B requested, and in accordance with the Quality Assurance Program of CAS. In addition, a Data Usability Summary Report (DUSR) was prepared by EcoChem, Inc., 710 Second Avenue, Suite 660, Seattle, Washington 98104, an independent data validator. A summary of the analytical results for SD is included in Table I. Laboratory data sheets for each sample collected are also included - see Attachment C.

### **F. Personnel**

Bruce Munson, Project Manager (EML)  
Melinda Horan, Certified Industrial Hygienist (EML)  
Matthew Mordas, Field Operations Manager (Geovation Engineering, PC)

## **TABLES AND ATTACHMENTS**

The following table is included as part of this report.

**Table I** – Results from March 2009 Indoor Air Sampling – Storage Deluxe.

*Indoor/Outdoor Air Quality Sampling Report  
Storage Deluxe  
Tuckahoe, NY  
June 2009*

**Attachment A** – Storage Deluxe IAQ Sampling Locations, Building A and Building B.

**Attachment B** – New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory for Storage Deluxe prepared by EML 2/19 to 3/12/09.

**Attachment C** -- Laboratory data sheets for each sample, from DUSR.

**Attachment D** – Draft transmittal letter to Steven Novenstein, Storage Deluxe.

**TABLE 1**

**Results from March 2009 Indoor Air Sampling – Storage Deluxe**  
 40 Marbledale Road, Tuckahoe, Westchester County, New York

<b>Location</b>	Showroom	Bldg. 3/4	Bldg. 2/4	Bldg. 5/6	Bldg. 7	Bldg. 8/9	Outdoor
Sample Date	03/12/09	03/12/09	03/12/09	03/12/09	03/12/09	03/12/09	03/12/09
Sample ID	SSD-1	SSD-2	SSD-3	SSD-4	SSD-5	SSD-6	Ambient
Canister ID	AC01028	AC00799	AC01401	AC01454	AC01377	AC01189	AC00893
<b>Compound</b>							
Trichloroethene	1.8	6.0	3.6	0.64	1.5	0.15	0.28
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	1.8	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
Acetone	16	23	21	10	22	ND	7.6
Benzene	ND	1.1	0.96	ND	1.2	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	
Ethylbenzene	3.5	17	17	9.1	38	4.2	ND
m&p-Xylenes	12	64	61	33	140	15	ND
2-Butanone (MEK)	1.5	3.3	2.8	1.6	2.3	0.96	0.82
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ND	1.8	1.6	ND	ND	ND	ND
Methylene chloride	ND	ND	0.72	ND	ND	ND	ND
o-Xylene	4.6	21	20	10	56	4.2	ND
Toluene	2.5	6.7	5.3	1.8	6.4	1.0	1.3
Trichlorofluoroethane	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.2	1.3	1.3	1.2	1.2	1.2	1.2
1,4-Dichlorobenzene	ND	1.9	1.6	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND		ND
Carbon Tetrachloride	0.47	0.53	0.52	0.49	0.50	0.52	0.50
Additional:							
Propene	4.7	4.3	3.6	1.1	2.1	0.87	0.82
CFC-12	3.2	2.6	2.5	2.2	2.3	2.3	2.3
Ethanol	120	100	78	14	23	11	ND
Acrolein	ND	ND	0.94	ND	1.3	ND	ND
2-Propanol	21	17	14	2.9	3.8	2.0	2.8
Ethyl Acetate	1.3	2.1	1.9	1.7	1.5	3.6	ND
n-Hexane	ND	2.6	1.8	ND	1.4	ND	ND
Tetrahydrofuran (THF)	ND	ND	ND	ND	0.97	ND	ND

**Results are reported in micrograms per cubic meter (mcg/m<sup>3</sup> or µg/m<sup>3</sup>)**

**ND - Not detected above quantification limit**

**TABLE 1**

<b>Location</b>	Showroom	Bldg. 3/4	Bldg. 2/4	Bldg. 5/6	Bldg. 7	Bldg. 8/9	Outdoor
Sample Date	03/12/09	03/12/09	03/12/09	03/12/09	03/12/09	03/12/09	03/12/09
Sample ID	SSD-1	SSD-2	SSD-3	SSD-4	SSD-5	SSD-6	Ambient
Canister ID	AC01028	AC00799	AC01401	AC01454	AC01377	AC01189	AC00893
<b>Compound</b>							
Cyclohexane	ND	0.94	0.96	ND	ND	ND	ND
n-Heptane	ND	1.5	1.1	ND	0.83	ND	ND
n-Butyl Acetate	ND	ND	0.86	ND	ND	ND	ND
n-Octane	ND	0.87	0.74	ND	1.4	ND	ND
Styrene	ND	0.81	0.69	ND	ND	ND	ND
n-Nonane	1.5	4.3	3.7	4.6	43	ND	ND
Cumene	ND	0.99	1.4	ND	6.1	ND	ND
alpha-Pinene	1.6	2.7	2.0	ND	14	ND	ND
n-Propylbenzene	0.83	3.3	4.1	1.9	23	ND	ND
4-Ethyltoluene	1.5	6.3	6.8	3.7	44	1.3	ND
1,3,5-Trimethylbenzene	1.8	7.7	12	3.8	40	1.3	ND
1,2,4-Trimethylbenzene	5.2	22	30	11	130	3.8	ND
d-Limonene	4.0	3.2	1.4	ND	2.3	ND	ND
Naphthalene	3.3	29	30	4.8	1.3	ND	ND

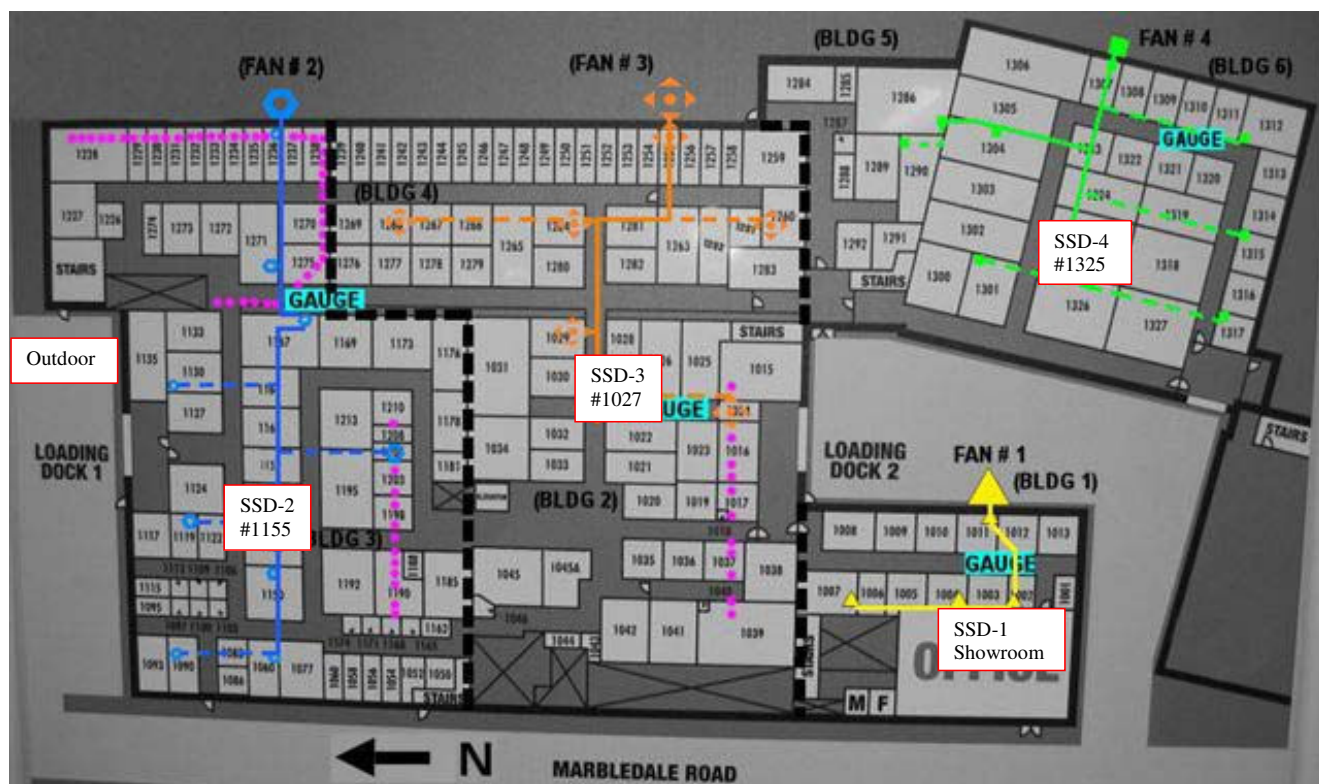
Results are reported in micrograms per cubic meter (mcg/m<sup>3</sup> or µg/m<sup>3</sup>)

ND - Not detected above quantification limit

# **ATTACHMENT A**



STORAGE DELUXE, TUCKAHOE, NY  
BUILDING A – IAQ SAMPLING LOCATIONS, 3-12-09



Sample ID  
Locker #

STORAGE DELUXE, TUCKAHOE, NY  
BUILDING B – IAQ SAMPLING LOCATIONS, 3-12-09



Sample ID  
Locker #

# **ATTACHMENT B**

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 Bruce Munson Date/Time Prepared 2/19/09 - 3/12/09  
Preparer's Affiliation Enviro. Mgt. Ltd Phone No. 845-429-1141  
Purpose of Investigation Post Mitigation Indoor Air Quality

1. OCCUPANT: Storage Deluxe

Interviewed: (Y)N Site Manager

Last Name: O'Donnell First Name: Lauren

Address: 40 Marbledale Road, Tuckahoe, NY 10707

County: Westchester

Home Phone: \_\_\_\_\_ Office Phone: 914-337-1666

Number of ~~Occupants~~ persons at this location 2-3 Age of Occupants —  
plus

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

Interviewed: Y/N Marbledale Road LLC c/o Storage Deluxe

Last Name: Novenstein First Name: Steven, President

Address: 50 Main Street, Suite 812 White Plains NY 10606

County: Westchester

Home Phone: \_\_\_\_\_ Office Phone: 914-997-9211

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential  
Industrial

School  
Church

Commercial Multi-use  
Other: Self Storage

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

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? \_\_\_\_\_

If the property is commercial, type?

Business Type(s) Self storage

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

Other characteristics:

Number of floors 1 to 3

Seven structural units  
Building age 1890-1980 Renovation 2006

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

Negligible. Multi-story portions have enclosed fire stairwells.

Airflow near source

Source area removed.

Outdoor air infiltration

Negligible, except at loading docks

Infiltration into air ducts

Overhead HVAC units, installed 2006

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: Bldg 7 full crawlspace All others slab other \_\_\_\_\_
- c. Basement floor: concrete dirt stone other \_\_\_\_\_
- d. Basement floor: uncovered covered covered with carpet + tiles in common spaces
- e. Concrete floor: unsealed sealed sealed with paint
- f. Foundation walls: poured block stone other \_\_\_\_\_
- g. Foundation walls: unsealed sealed sealed with \_\_\_\_\_
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 4 (feet)

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

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

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

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

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Natural gas - Bldg 1 only

Boiler/furnace located in: N/A Basement Outdoors Main Floor Other \_\_\_\_\_

Air conditioning: Central Air Window units Open Windows None  
overhead HVAC units

Are there air distribution ducts present? ☒ Y ☐ N Building 1 only

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.

Multiple HVAC units throughout buildings.  
All new installation, 2006.

## 7. OCCUPANCY

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

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

Basement	Building 7 - self storage
1 <sup>st</sup> Floor	Building 1 - office/showroom. All others self storage
2 <sup>nd</sup> Floor	Self storage
3 <sup>rd</sup> Floor	NA
4 <sup>th</sup> Floor	NA

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y ☒ N

b. Does the garage have a separate heating unit?

Y / N ☒ NA

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

☒ Y ☐ N ☐ NA Leaf blower  
weed whacker  
Please specify Gasoline container

d. Has the building ever had a fire?

Y / N When? 1980's

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

Y ☒ N Where?

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

☒ Y ☐ N Where & Type? Maintenance room

g. Is there smoking in the building?

Y ☒ N How frequently?

h. Have cleaning products been used recently?

☒ Y ☐ N When & Type? Daily \* Suspended prior to IAQ sampling

i. Have cosmetic products been used recently?

Y ☒ N When & Type?

\* Showroom floor - clean wax  
Shiny surface cleaners - glass, stainless steel trim, railings etc.

j. Has painting/staining been done in the last <sup>3</sup> months? ☒ Y ☐ N

Where & When?

Concrete floors  
Blue railings + doors

k. Is there new carpet, drapes or other textiles?

☒ Y ☐ N

Where & When?

Basement #7  
January 2009

l. Have air fresheners been used recently?

☒ Y ☐ N

When & Type?

Daily

m. Is there a kitchen exhaust fan?

Y ☒ N

If yes, where vented?

n. Is there a bathroom exhaust fan?

☒ Y ☐ N

If yes, where vented?

Outside

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?

Monthly - vendor

Are there odors in the building?

If yes, please describe:

Fresh paint. Various from storage materials

Do any of the building occupants use solvents at work?

☒ Y ☐ N

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

If yes, what types of solvents are used?

Floorstripper

If yes, are their clothes washed at work?

Y / ☒ N

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

Yes, use dry cleaning regularly (weekly)

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

Yes, work at a dry-cleaning service

☒ No

Unknown

Is there a radon mitigation system for the building/structure?

☒ Y ☐ N

Date of Installation:

2007

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)

NA

a. Provide reasons why relocation is recommended: \_\_\_\_\_

b. Residents choose to: remain in home

relocate to friends/family

relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained?

Y / N

d. Relocation package provided and explained to residents?

Y / N

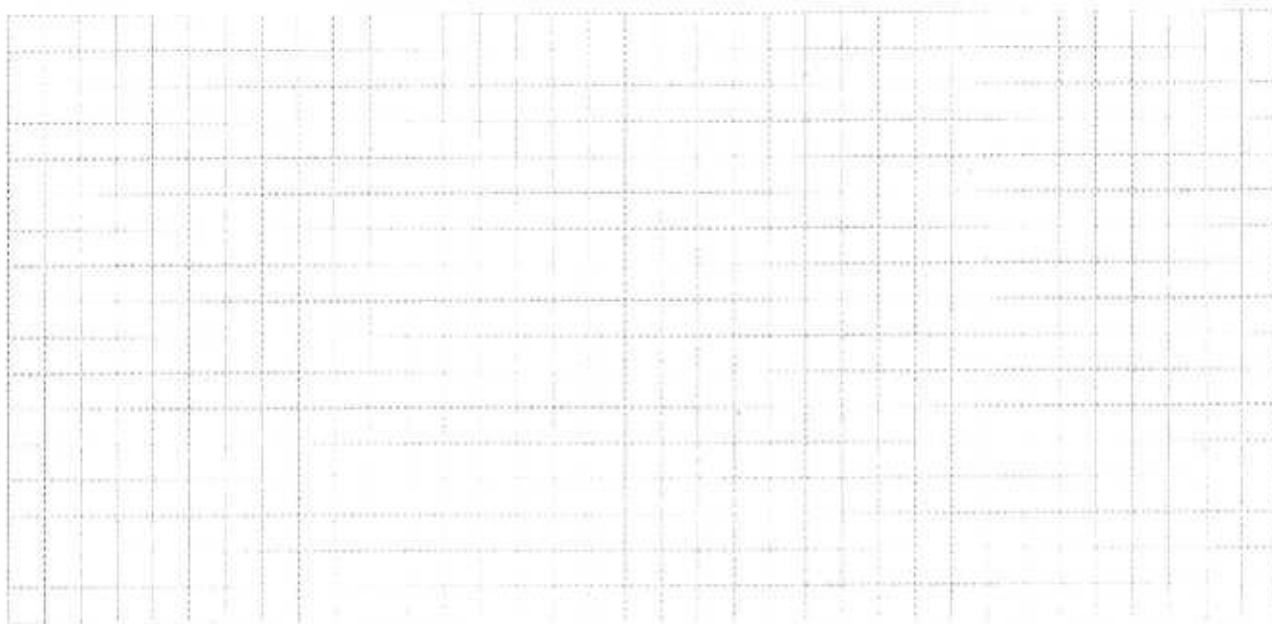


**11. FLOOR PLANS**

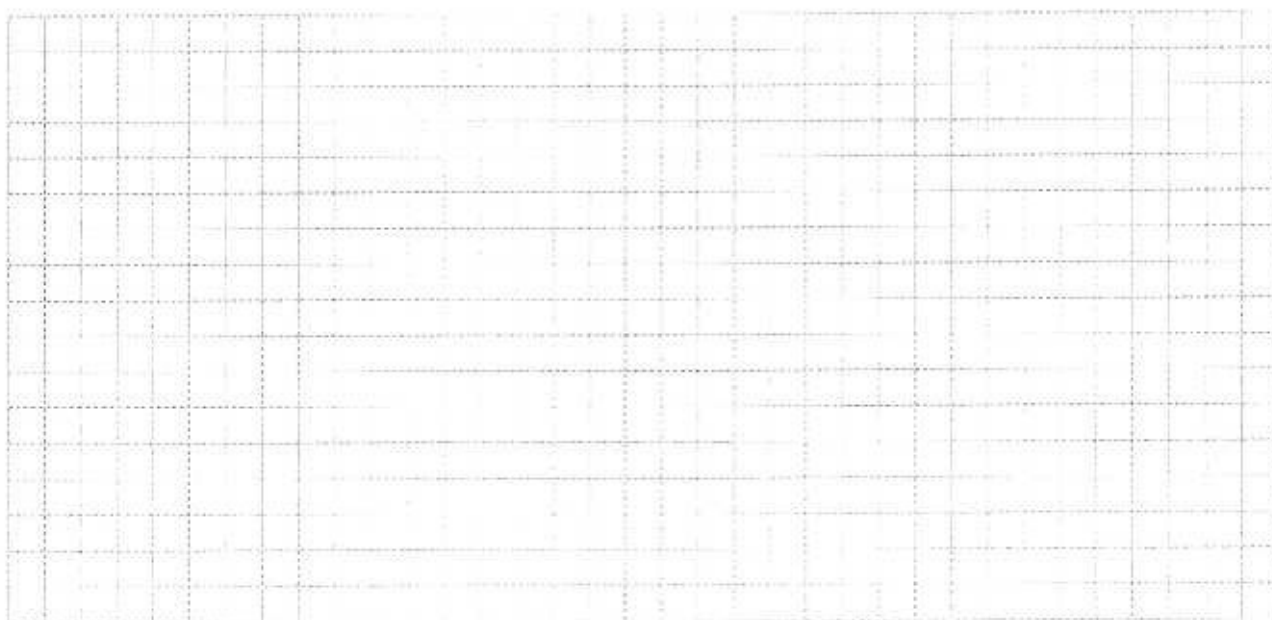
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

**Basement:**

*See attached construction drawings*



**First Floor:**



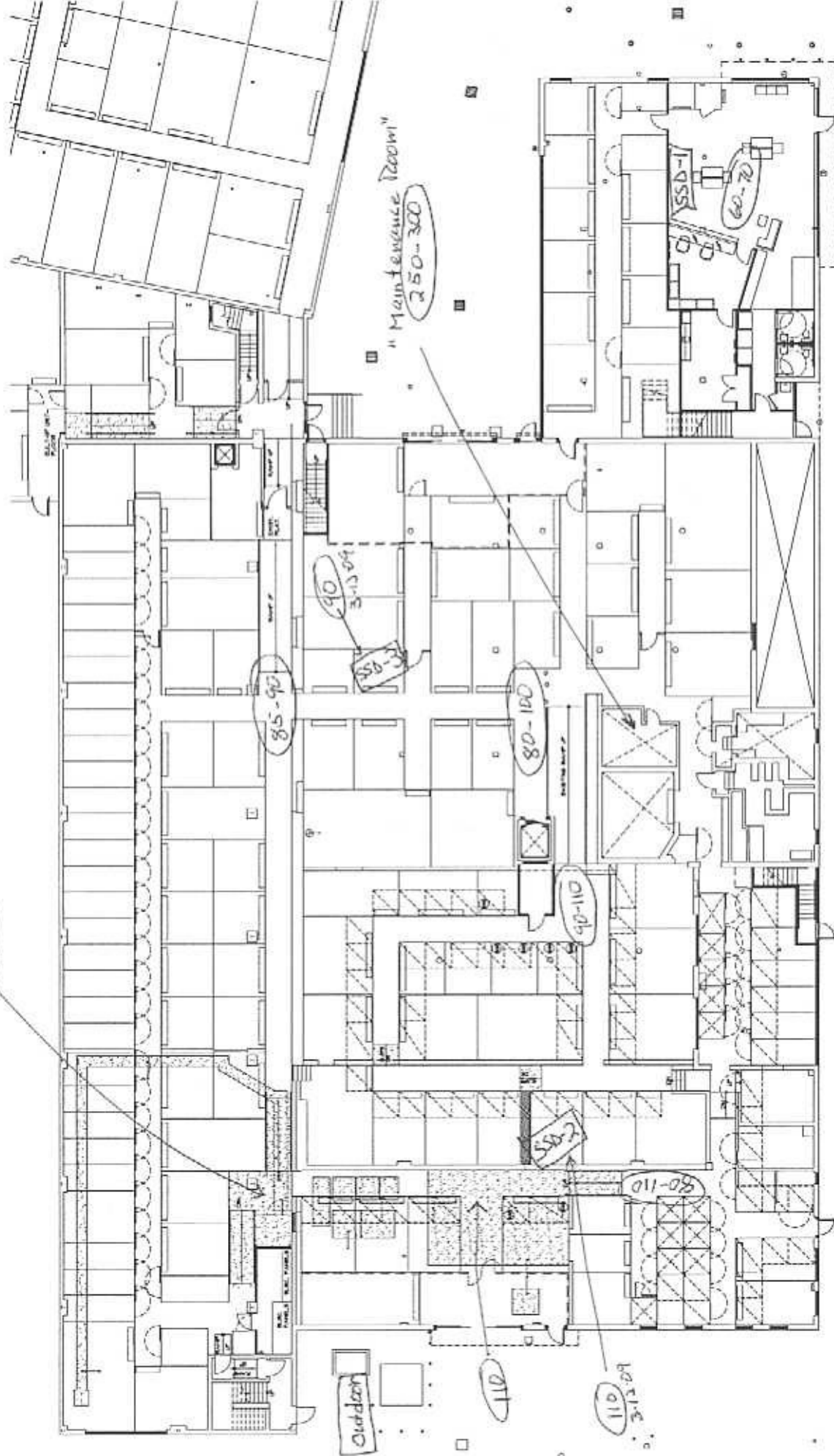
Sampling location  
3-12-09

Storage Deluxe - North

MARBLEDALE ROAD

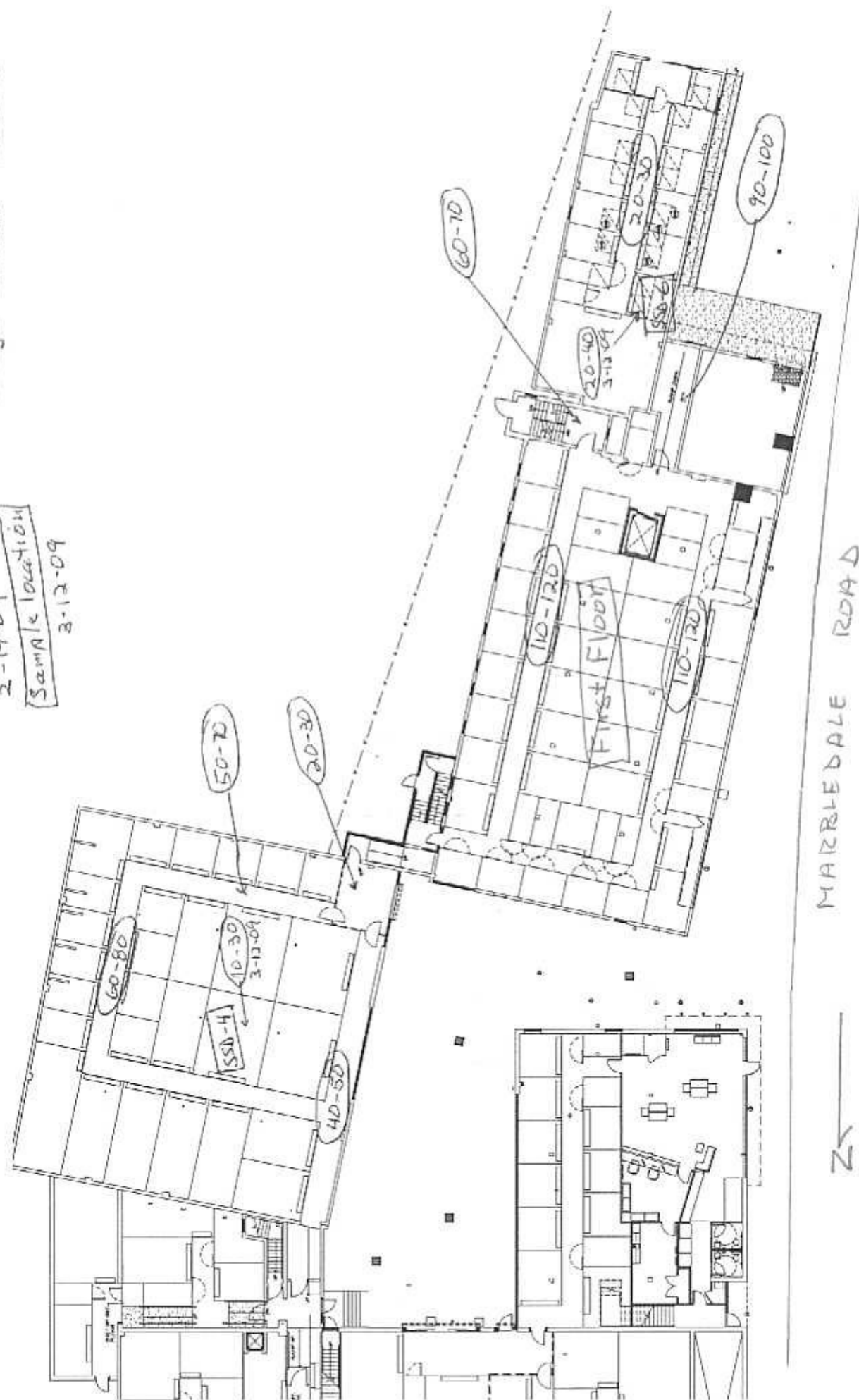
N

6-1



Storage Deluxe - South

PID PPB  
2-19-09  
Sample location  
3-12-09



MARBLEDALE ROAD

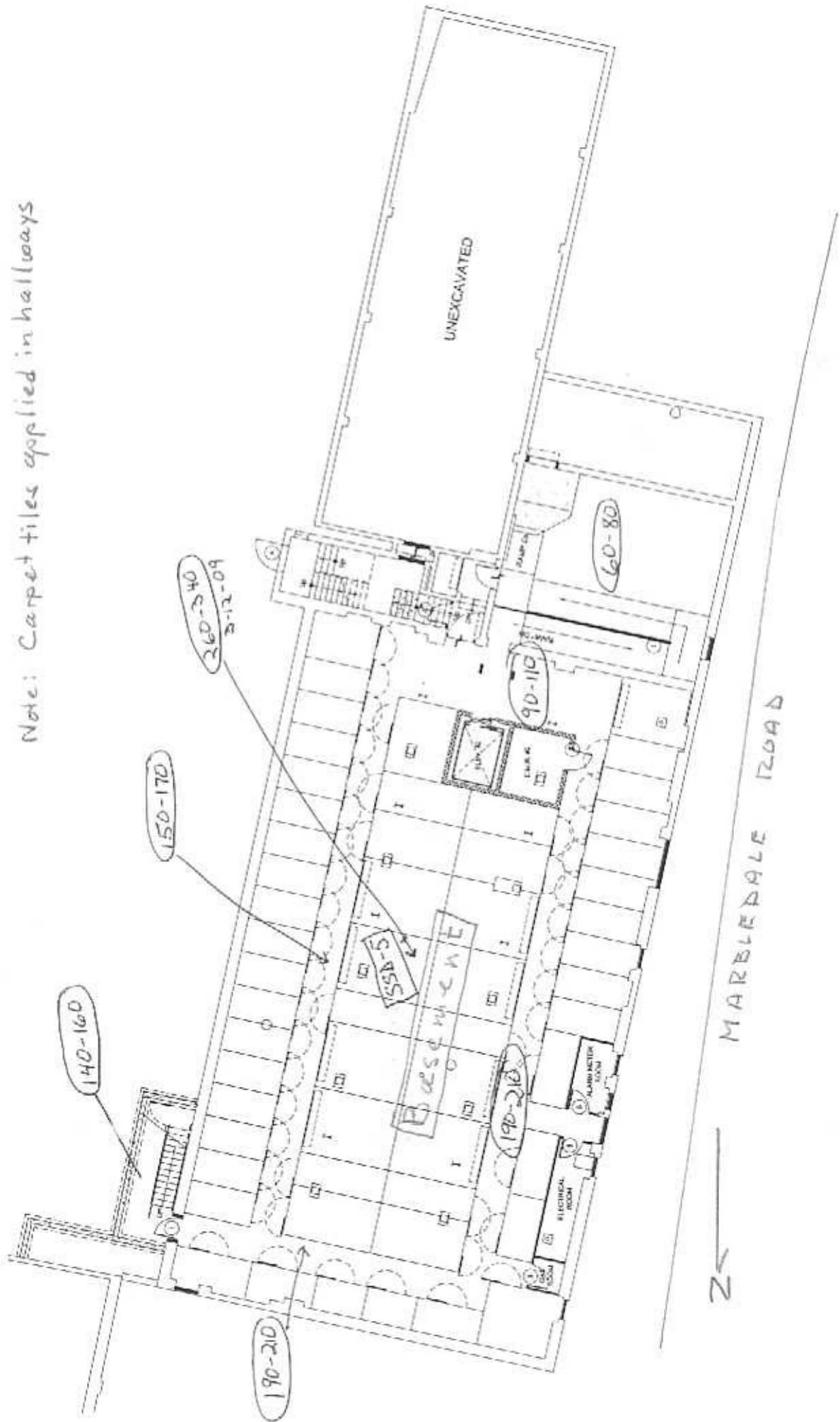
N

Storage Deluxe-South  
Basement

Note: Carpet tiles applied in hallways

P12 pph  
2-19-09

Sample location  
3-12-09





## 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PP6 RAE Model PGM 7240

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
Shedroom:	Bubble wrap					
	Plastic peanuts				See	
	Foam				Floor	
	Cardboard				plans	
					↓	
Maintenance Room:						
Dymon	Stainless Steel Cleaner towels	30/pkg	UO & U	Mineral Oil, Naptha (petroleum) D-Limonene		
Mastamiecc	High Glass floor finish	5 gal Pails	UO	Diethylene glycol monoethyl ether		
Acrolade	Hard Floor Sealer Finish	1 gal	UO	Diethylene glycol ethyl ether, Dibutyl phthalate		
Stick-Em	Rat & Mouse glue Traps	2/pkg	UO	Chlorophacinone		
AC Formula	Rotenticide	75/Pail	UO	"		
M2S	Non-ammoniated mop-strip		UO & O			
	Pine-Sol	6 gallon	UO			
Lysol	Spray disinfectant	12 1/2 oz	UO & O			
QPE	Pine Oil Disinfectant	6 gallon	UO			
Roundup	Weed & Grass Killer	1.33 Gal	UO & O			
Behr	Premium Paints (Various)	Gal	O			
Amsterdam Color Works	Paints (Various)	Gal.	O			

\* 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.



## STORAGE DELUXE – TUCKAHOE

2-19-09 to 3-12-09

### Showroom Supplies



### Maintenance Room



## Maintenance Room





## A photograph of a storage area. In the foreground, a box of JT Eaton's Stick-E glue traps stands upright. The box is white with blue and red accents, featuring the text 'STICK-E', 'PEANUT BUTTER', '2 RAT AND MOUSE GLUE TRAPS', and 'PEANUT BUTTER SCENTED'. A small illustration of a rat is visible on the box. To the right of the box is a black plastic bag. In front of the bag are two white plastic buckets. The top bucket is labeled 'JT EATON AC 90 FORMULA' and 'Ready-to-Use RODENTICIDE'. It also states 'KILLS ROACHES, RATS, AND MOUSE TRAPS' and 'CAUTION'. The bottom bucket is partially visible and has some text on its label, including 'DIRECTIONS FOR USE'. The background is a plain, light-colored wall.

**Building 3, Locker 1155: SSD-2**



**Building 2, Locker 1027: SSD-3**





**Building 6, Locker 1325: SSD-4 (PID=20ppb)**



**Building 7, Locker 0054: SSD-5**



**Building 7, Locker 0054: SSD-5 (PID=325ppb)**



**Building 9, Locker 1444: SSD-6**



## Northern Driveway: Outdoor Ambient



# **ATTACHMENT C**





EcoChem, INC.  
Environmental Data Quality

## DATA USABILITY SUMMARY REPORT

### KINGS/STORAGE DELUXE IAQ INVESTIGATION

**March 12, 2009 Sampling Event**

**Prepared for:**

Environmental Management, LTD.  
On the Lake @ 41 Franck Road  
Stony Point, New York 10980


**Prepared by:**

EcoChem, Inc.  
710 Second Avenue, Suite 660  
Seattle, Washington 98104

EcoChem Project: C23901-1

June 16, 2009

**Approved for Release:**

  
Eric Strout  
Technical Director  
EcoChem, Inc.

## DATA USABILITY SUMMARY REPORT KINGS/STORAGE DELUX IAQ INVESTIGATION

This report documents the review of analytical data from the analyses of eight air samples, one trip blank, and the associated laboratory quality control (QC) samples. A full (USEPA Level IV) validation was performed. Samples were analyzed by Columbia Analytical Services, Inc., Simi Valley, California. **Table 1** provides a cross reference of sample identifiers and collection date.

**TABLE 1: Sample Index**

Field ID	Lab ID	Date Collected	SDG
SSD-1	P0900931-001.01	3/12/2009	P0900931
SSD-2	P0900931-002.01	3/12/2009	P0900931
SSD-3	P0900931-003.01	3/12/2009	P0900931
SSD-4	P0900931-004.01	3/12/2009	P0900931
SSD-5	P0900931-005.01	3/12/2009	P0900931
SSD-6	P0900931-006.01	3/12/2009	P0900931
SSD-1 DUP	P0900931-007.01	3/12/2009	P0900931
Outdoor Ambient	P0900931-008.01	3/12/2009	P0900931
Trip Blank	P0900931-009.01	3/12/2009	P0900931

### BASIS OF DATA EVALUATION

The data were validated using guidance and QC criteria documented in *USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 4, October 2006: Validating Air Samples – Volatile Organic Analyses of Ambient Air in Canister by Method TO-15* and the analytical method, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, January 1999, EPA/625/R-96/010B, Compendium Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)"*.

The technical findings and qualifiers assigned are organized by method and immediately follow this introduction. Data Validation Qualifier Code definitions are provided as **Appendix A**. The sample result summary forms are included as **APPENDIX B**. The data validation worksheets are included as **APPENDIX C**.

### PROCESS FOR DATA VALIDATION

A full data validation equivalent to an USEPA CLP "QA Level IV" level of effort was performed. **Table 2** lists the quality control (QC) elements that were reviewed.



**TABLE 2: Full (USEPA Level IV) Quality Control Elements**

Quality Control Elements
<ul style="list-style-type: none"><li>➤ Data Completeness</li><li>➤ Cover letter, Narrative, and Data Reporting Forms</li><li>➤ Analytical holding times</li><li>➤ Chain of custody and sample handling/preservation</li><li>➤ Instrument performance: GC/MS tune, ICP interference check samples, GC column degradation checks (from summary forms)</li><li>➤ Method blank contamination (from summary forms)</li><li>➤ Instrument blank contamination for metals analysis (from summary forms)</li><li>➤ Initial and continuing calibration (from summary forms)</li><li>➤ Field blank contamination (from sample result summaries)</li><li>➤ Analytical accuracy: surrogate %R for organic analyses, matrix spike sample %R, serial dilution for metals analysis, and laboratory control sample %R (from summary forms)</li><li>➤ Analytical precision: matrix spike duplicate and laboratory duplicate sample RPD (from summary forms)</li><li>➤ Field precision: field duplicate RPD (if analyzed)</li><li>➤ Internal standard areas (from summary forms)</li><li>➤ Reported detection limits (from sample result summaries)</li><li>➤ Compound identification evaluated from raw data</li><li>➤ Compound quantitation, transcription and calculation checks performed at a frequency of 10 percent from raw data. If an error was noted, 100 percent of the calculations and transcriptions for that data package were verified.</li></ul>

Laboratory QC samples were used to assess the effectiveness of extraction/preparation procedures and to evaluate laboratory method performance, potential contamination during the analytical process, and sample matrix effects. Quality control samples included method blanks, laboratory control samples (LCS), matrix spike (MS) samples, and laboratory duplicate samples. Surrogates were added to each sample analyzed for organic compounds to further assess the effects of sample matrix on accuracy.

During validation, the results of the QC samples and instrument calibration and tuning are compared to the measurement quality objectives (MQO) initially established during project planning. Validation also provides a quantitative and qualitative evaluation of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall data usability.

Data were qualified when associated QC sample and instrument performance results were outside the laboratory QC sample control limits. For the Kings/Storage Deluxe IAQ Investigation samples, no data were qualified for any reason.

## TECHNICAL SUMMARY

Overall, the data are acceptable for the intended purposes. No data were rejected, or qualified for any reason. The data meet all the criteria for the parameters tested.

All data, as reported, are acceptable for use.

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management, LTD.

Client Sample ID: SSD-1

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01028

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	4.7	0.83	2.7	0.48	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	0.83	0.64	0.17	
74-87-3	Chloromethane	ND	0.83	ND	0.40	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.065	
106-99-0	1,3-Butadiene	ND	0.83	ND	0.37	
74-83-9	Bromomethane	ND	0.83	ND	0.21	
75-00-3	Chloroethane	ND	0.83	ND	0.31	
64-17-5	Ethanol	120	8.3	62	4.4	
75-05-8	Acetonitrile	ND	0.83	ND	0.49	
107-02-8	Acrolein	ND	0.83	ND	0.36	
67-64-1	Acetone	16	8.3	6.7	3.5	M1
75-69-4	Trichlorofluoromethane	1.2	0.83	0.22	0.15	
67-63-0	2-Propanol (Isopropyl Alcohol)	21	0.83	8.7	0.34	
107-13-1	Acrylonitrile	ND	0.83	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.83	ND	0.21	
75-09-2	Methylene Chloride	ND	0.83	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.83	ND	0.26	
76-13-1	Trichlorotrifluoroethane	ND	0.83	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.83	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.83	ND	0.21	
75-34-3	1,1-Dichloroethane	ND	0.83	ND	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	0.83	ND	0.23	
108-05-4	Vinyl Acetate	ND	8.3	ND	2.3	
78-93-3	2-Butanone (MEK)	1.5	0.83	0.50	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: OctDate: 3/27/09

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MS6/5/09

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management, LTD.

Client Sample ID: SSD-1

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01028

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.83	ND	0.21	
141-78-6	Ethyl Acetate	1.3	0.83	0.35	0.23	
110-54-3	n-Hexane	ND	0.83	ND	0.23	
67-66-3	Chloroform	ND	0.83	ND	0.17	
109-99-9	Tetrahydrofuran (THF)	ND	0.83	ND	0.28	
107-06-2	1,2-Dichloroethane	ND	0.83	ND	0.20	
71-55-6	1,1,1-Trichloroethane	ND	0.83	ND	0.15	
71-43-2	Benzene	ND	0.83	ND	0.26	
56-23-5	Carbon Tetrachloride	0.47	0.17	0.075	0.026	
110-82-7	Cyclohexane	ND	0.83	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	0.83	ND	0.18	
75-27-4	Bromodichloromethane	ND	0.83	ND	0.12	
79-01-6	Trichloroethene	1.8	0.17	0.33	0.031	
123-91-1	1,4-Dioxane	ND	0.83	ND	0.23	
80-62-6	Methyl Methacrylate	ND	0.83	ND	0.20	
142-82-5	n-Heptane	ND	0.83	ND	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.83	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.83	ND	0.15	
108-88-3	Toluene	2.5	0.83	0.66	0.22	
591-78-6	2-Hexanone	ND	0.83	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.83	ND	0.097	
106-93-4	1,2-Dibromoethane	ND	0.83	ND	0.11	
123-86-4	n-Butyl Acetate	ND	0.83	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: LADate: 3/27/09

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MSG/LS/LS

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management, LTD.  
 Client Sample ID: SSD-1  
 Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931  
 CAS Sample ID: P0900931-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Elsa Moctezuma  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: AC01028

Date Collected: 3/12/09  
 Date Received: 3/16/09  
 Date Analyzed: 3/19/09  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.83	ND	0.18	
127-18-4	Tetrachloroethene	ND	0.83	ND	0.12	
108-90-7	Chlorobenzene	ND	0.83	ND	0.18	
100-41-4	Ethylbenzene	3.5	0.83	0.82	0.19	
179601-23-1	m,p-Xylenes	12	0.83	2.9	0.19	
75-25-2	Bromoform	ND	0.83	ND	0.080	
100-42-5	Styrene	ND	0.83	ND	0.19	
95-47-6	o-Xylene	4.6	0.83	1.1	0.19	
111-84-2	n-Nonane	1.5	0.83	0.29	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.83	ND	0.12	
98-82-8	Cumene	ND	0.83	ND	0.17	
80-56-8	alpha-Pinene	1.6	0.83	0.28	0.15	
103-65-1	n-Propylbenzene	0.83	0.83	0.17	0.17	
622-96-8	4-Ethyltoluene	1.5	0.83	0.30	0.17	
108-67-8	1,3,5-Trimethylbenzene	1.8	0.83	0.37	0.17	
95-63-6	1,2,4-Trimethylbenzene	5.2	0.83	1.1	0.17	
100-44-7	Benzyl Chloride	ND	0.83	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.83	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.83	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.83	ND	0.14	
5989-27-5	d-Limonene	4.0	0.83	0.72	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	ND	0.11	
91-20-3	Naphthalene	3.3	0.83	0.63	0.16	
87-68-3	Hexachlorobutadiene	ND	0.83	ND	0.077	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: isaDate: 3/27/09

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MSG 6/6/09

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management, LTD.

Client Sample ID: SSD-2

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00799

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	4.3	0.81	2.5	0.47	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.81	0.52	0.16	
74-87-3	Chloromethane	ND	0.81	ND	0.39	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
106-99-0	1,3-Butadiene	ND	0.81	ND	0.36	
74-83-9	Bromomethane	ND	0.81	ND	0.21	
75-00-3	Chloroethane	ND	0.81	ND	0.31	
64-17-5	Ethanol	100	8.1	54	4.3	
75-05-8	Acetonitrile	ND	0.81	ND	0.48	
107-02-8	Acrolein	ND	0.81	ND	0.35	
67-64-1	Acetone	23	8.1	9.9	3.4	MI
75-69-4	Trichlorofluoromethane	1.3	0.81	0.23	0.14	
67-63-0	2-Propanol (Isopropyl Alcohol)	17	0.81	7.1	0.33	
107-13-1	Acrylonitrile	ND	0.81	ND	0.37	
75-35-4	1,1-Dichloroethene	ND	0.81	ND	0.20	
75-09-2	Methylene Chloride	ND	0.81	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.81	ND	0.26	
76-13-1	Trichlorotrifluoroethane	ND	0.81	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.81	ND	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.81	ND	0.20	
75-34-3	1,1-Dichloroethane	ND	0.81	ND	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	0.81	ND	0.22	
108-05-4	Vinyl Acetate	ND	8.1	ND	2.3	
78-93-3	2-Butanone (MEK)	3.3	0.81	1.1	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

MI = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: 64Date: 3/27/09

MS6 4/5/09

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management, LTD.

Client Sample ID: SSD-2

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00799

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.81	ND	0.20	
141-78-6	Ethyl Acetate	2.1	0.81	0.59	0.22	
110-54-3	n-Hexane	2.6	0.81	0.74	0.23	
67-66-3	Chloroform	ND	0.81	ND	0.16	
109-99-9	Tetrahydrofuran (THF)	ND	0.81	ND	0.27	
107-06-2	1,2-Dichloroethane	ND	0.81	ND	0.20	
71-55-6	1,1,1-Trichloroethane	ND	0.81	ND	0.15	
71-43-2	Benzene	1.1	0.81	0.34	0.25	
56-23-5	Carbon Tetrachloride	0.53	0.16	0.084	0.026	
110-82-7	Cyclohexane	0.94	0.81	0.27	0.23	
78-87-5	1,2-Dichloropropane	ND	0.81	ND	0.17	
75-27-4	Bromodichloromethane	ND	0.81	ND	0.12	
79-01-6	Trichloroethene	6.0	0.16	1.1	0.030	
123-91-1	1,4-Dioxane	ND	0.81	ND	0.22	
80-62-6	Methyl Methacrylate	ND	0.81	ND	0.20	
142-82-5	n-Heptane	1.5	0.81	0.37	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	ND	0.18	
108-10-1	4-Methyl-2-pentanone	1.8	0.81	0.43	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.81	ND	0.15	
108-88-3	Toluene	6.7	0.81	1.8	0.21	
591-78-6	2-Hexanone	ND	0.81	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.81	ND	0.095	
106-93-4	1,2-Dibromoethane	ND	0.81	ND	0.10	
123-86-4	n-Butyl Acetate	ND	0.81	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: LADate: 3/21/09

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156/1569

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management, LTD.  
 Client Sample ID: SSD-2  
 Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931  
 CAS Sample ID: P0900931-002

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Elsa Moctezuma  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: AC00799

Date Collected: 3/12/09  
 Date Received: 3/16/09  
 Date Analyzed: 3/19/09  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.87	0.81	0.19	0.17	
127-18-4	Tetrachloroethene	ND	0.81	ND	0.12	
108-90-7	Chlorobenzene	ND	0.81	ND	0.17	
100-41-4	Ethylbenzene	17	0.81	4.0	0.19	
179601-23-1	m,p-Xylenes	64	0.81	15	0.19	
75-25-2	Bromoform	ND	0.81	ND	0.078	
100-42-5	Styrene	0.81	0.81	0.19	0.19	
95-47-6	o-Xylene	21	0.81	4.9	0.19	
111-84-2	n-Nonane	4.3	0.81	0.81	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.81	ND	0.12	
98-82-8	Cumene	0.99	0.81	0.20	0.16	
80-56-8	alpha-Pinene	2.7	0.81	0.49	0.14	
103-65-1	n-Propylbenzene	3.3	0.81	0.68	0.16	
622-96-8	4-Ethyltoluene	6.3	0.81	1.3	0.16	
108-67-8	1,3,5-Trimethylbenzene	7.7	0.81	1.6	0.16	
95-63-6	1,2,4-Trimethylbenzene	22	0.81	4.5	0.16	
100-44-7	Benzyl Chloride	ND	0.81	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.81	ND	0.13	
106-46-7	1,4-Dichlorobenzene	1.9	0.81	0.32	0.13	
95-50-1	1,2-Dichlorobenzene	ND	0.81	ND	0.13	
5989-27-5	d-Limonene	3.2	0.81	0.57	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.81	ND	0.083	
120-82-1	1,2,4-Trichlorobenzene	ND	0.81	ND	0.11	
91-20-3	Naphthalene	29	0.81	5.6	0.15	
87-68-3	Hexachlorobutadiene	ND	0.81	ND	0.075	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:         Date: 3/27/09

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## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-3

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01401

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.35

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	3.6	0.68	2.1	0.39	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.68	0.50	0.14	
74-87-3	Chloromethane	ND	0.68	ND	0.33	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.68	ND	0.31	
74-83-9	Bromomethane	ND	0.68	ND	0.17	
75-00-3	Chloroethane	ND	0.68	ND	0.26	
64-17-5	Ethanol	78	6.8	41	3.6	
75-05-8	Acetonitrile	ND	0.68	ND	0.40	
107-02-8	Acrolein	0.94	0.68	0.41	0.29	
67-64-1	Acetone	21	6.8	9.0	2.8	M1
75-69-4	Trichlorofluoromethane	1.3	0.68	0.23	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	14	0.68	5.9	0.27	
107-13-1	Acrylonitrile	ND	0.68	ND	0.31	
75-35-4	1,1-Dichloroethene	ND	0.68	ND	0.17	
75-09-2	Methylene Chloride	0.72	0.68	0.21	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.68	ND	0.22	
76-13-1	Trichlorotrifluoroethane	ND	0.68	ND	0.088	
75-15-0	Carbon Disulfide	ND	0.68	ND	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.68	ND	0.17	
75-34-3	1,1-Dichloroethane	ND	0.68	ND	0.17	
1634-04-4	Methyl tert-Butyl Ether	ND	0.68	ND	0.19	
108-05-4	Vinyl Acetate	ND	6.8	ND	1.9	
78-93-3	2-Butanone (MEK)	2.8	0.68	0.96	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: LADate: 3/27/09

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## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-3

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01401

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.35

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.68	ND	0.17	
141-78-6	Ethyl Acetate	1.9	0.68	0.52	0.19	
110-54-3	n-Hexane	1.8	0.68	0.52	0.19	
67-66-3	Chloroform	ND	0.68	ND	0.14	
109-99-9	Tetrahydrofuran (THF)	ND	0.68	ND	0.23	
107-06-2	1,2-Dichloroethane	ND	0.68	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	0.68	ND	0.12	
71-43-2	Benzene	0.96	0.68	0.30	0.21	
56-23-5	Carbon Tetrachloride	0.52	0.14	0.083	0.021	
110-82-7	Cyclohexane	0.96	0.68	0.28	0.20	
78-87-5	1,2-Dichloropropane	ND	0.68	ND	0.15	
75-27-4	Bromodichloromethane	ND	0.68	ND	0.10	
79-01-6	Trichloroethene	3.6	0.14	0.67	0.025	
123-91-1	1,4-Dioxane	ND	0.68	ND	0.19	
80-62-6	Methyl Methacrylate	ND	0.68	ND	0.16	
142-82-5	n-Heptane	1.1	0.68	0.26	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	ND	0.15	
108-10-1	4-Methyl-2-pentanone	1.6	0.68	0.39	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.68	ND	0.12	
108-88-3	Toluene	5.3	0.68	1.4	0.18	
591-78-6	2-Hexanone	ND	0.68	ND	0.16	
124-48-1	Dibromochloromethane	ND	0.68	ND	0.079	
106-93-4	1,2-Dibromoethane	ND	0.68	ND	0.088	
123-86-4	n-Butyl Acetate	0.86	0.68	0.18	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:   *lee*  Date:   3/27/09  *MS6 6/5/09*

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-3

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01401

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.35

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.74	0.68	0.16	0.14	
127-18-4	Tetrachloroethene	ND	0.68	ND	0.10	
108-90-7	Chlorobenzene	ND	0.68	ND	0.15	
100-41-4	Ethylbenzene	17	0.68	4.0	0.16	
179601-23-1	m,p-Xylenes	61	0.68	14	0.16	
75-25-2	Bromoform	ND	0.68	ND	0.065	
100-42-5	Styrene	0.69	0.68	0.16	0.16	
95-47-6	o-Xylene	20	0.68	4.6	0.16	
111-84-2	n-Nonane	3.7	0.68	0.71	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.68	ND	0.098	
98-82-8	Cumene	1.4	0.68	0.28	0.14	
80-56-8	alpha-Pinene	2.0	0.68	0.35	0.12	
103-65-1	n-Propylbenzene	4.1	0.68	0.84	0.14	
622-96-8	4-Ethyltoluene	6.8	0.68	1.4	0.14	
108-67-8	1,3,5-Trimethylbenzene	12	0.68	2.4	0.14	
95-63-6	1,2,4-Trimethylbenzene	30	0.68	6.2	0.14	
100-44-7	Benzyl Chloride	ND	0.68	ND	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.68	ND	0.11	
106-46-7	1,4-Dichlorobenzene	1.6	0.68	0.26	0.11	
95-50-1	1,2-Dichlorobenzene	ND	0.68	ND	0.11	
5989-27-5	d-Limonene	1.4	0.68	0.25	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.68	ND	0.070	
120-82-1	1,2,4-Trichlorobenzene	ND	0.68	ND	0.091	
91-20-3	Naphthalene	30	0.68	5.7	0.13	
87-68-3	Hexachlorobutadiene	ND	0.68	ND	0.063	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: WDate: 3/27/09

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## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-4

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-004

Test Code: EPA TO-15

Date Collected: 3/12/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 3/16/09

Analyst: Elsa Moctezuma

Date Analyzed: 3/19/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01454

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.1	0.81	0.62	0.47	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.81	0.45	0.16	
74-87-3	Chloromethane	ND	0.81	ND	0.39	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
106-99-0	1,3-Butadiene	ND	0.81	ND	0.36	
74-83-9	Bromomethane	ND	0.81	ND	0.21	
75-00-3	Chloroethane	ND	0.81	ND	0.31	
64-17-5	Ethanol	14	8.1	7.6	4.3	
75-05-8	Acetonitrile	ND	0.81	ND	0.48	
107-02-8	Acrolein	ND	0.81	ND	0.35	
67-64-1	Acetone	10	8.1	4.4	3.4	M1
75-69-4	Trichlorofluoromethane	1.2	0.81	0.22	0.14	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	0.81	1.2	0.33	
107-13-1	Acrylonitrile	ND	0.81	ND	0.37	
75-35-4	1,1-Dichloroethene	ND	0.81	ND	0.20	
75-09-2	Methylene Chloride	ND	0.81	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.81	ND	0.26	
76-13-1	Trichlorotrifluoroethane	ND	0.81	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.81	ND	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.81	ND	0.20	
75-34-3	1,1-Dichloroethane	ND	0.81	ND	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	0.81	ND	0.22	
108-05-4	Vinyl Acetate	ND	8.1	ND	2.3	
78-93-3	2-Butanone (MEK)	1.6	0.81	0.55	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CADate: 3/27/09

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## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-4

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01454

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.81	ND	0.20	
141-78-6	Ethyl Acetate	1.7	0.81	0.46	0.22	
110-54-3	n-Hexane	ND	0.81	ND	0.23	
67-66-3	Chloroform	ND	0.81	ND	0.16	
109-99-9	Tetrahydrofuran (THF)	ND	0.81	ND	0.27	
107-06-2	1,2-Dichloroethane	ND	0.81	ND	0.20	
71-55-6	1,1,1-Trichloroethane	ND	0.81	ND	0.15	
71-43-2	Benzene	ND	0.81	ND	0.25	
56-23-5	Carbon Tetrachloride	0.49	0.16	0.079	0.026	
110-82-7	Cyclohexane	ND	0.81	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	0.81	ND	0.17	
75-27-4	Bromodichloromethane	ND	0.81	ND	0.12	
79-01-6	Trichloroethene	0.64	0.16	0.12	0.030	
123-91-1	1,4-Dioxane	ND	0.81	ND	0.22	
80-62-6	Methyl Methacrylate	ND	0.81	ND	0.20	
142-82-5	n-Heptane	ND	0.81	ND	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.81	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.81	ND	0.15	
108-88-3	Toluene	1.8	0.81	0.49	0.21	
591-78-6	2-Hexanone	ND	0.81	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.81	ND	0.095	
106-93-4	1,2-Dibromoethane	ND	0.81	ND	0.10	
123-86-4	n-Butyl Acetate	ND	0.81	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: larDate: 3/27/09

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## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.  
 Client Sample ID: SSD-4  
 Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931  
 CAS Sample ID: P0900931-004

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Elsa Moctezuma  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: AC01454

Date Collected: 3/12/09  
 Date Received: 3/16/09  
 Date Analyzed: 3/19/09  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.81	ND	0.17	
127-18-4	Tetrachloroethene	ND	0.81	ND	0.12	
108-90-7	Chlorobenzene	ND	0.81	ND	0.17	
100-41-4	Ethylbenzene	9.1	0.81	2.1	0.19	
179601-23-1	m,p-Xylenes	33	0.81	7.6	0.19	
75-25-2	Bromoform	ND	0.81	ND	0.078	
100-42-5	Styrene	ND	0.81	ND	0.19	
95-47-6	o-Xylene	10	0.81	2.4	0.19	
111-84-2	n-Nonane	4.6	0.81	0.87	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.81	ND	0.12	
98-82-8	Cumene	ND	0.81	ND	0.16	
80-56-8	alpha-Pinene	ND	0.81	ND	0.14	
103-65-1	n-Propylbenzene	1.9	0.81	0.39	0.16	
622-96-8	4-Ethyltoluene	3.7	0.81	0.74	0.16	
108-67-8	1,3,5-Trimethylbenzene	3.8	0.81	0.77	0.16	
95-63-6	1,2,4-Trimethylbenzene	11	0.81	2.3	0.16	
100-44-7	Benzyl Chloride	ND	0.81	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.81	ND	0.13	
106-46-7	1,4-Dichlorobenzene	ND	0.81	ND	0.13	
95-50-1	1,2-Dichlorobenzene	ND	0.81	ND	0.13	
5989-27-5	d-Limonene	ND	0.81	ND	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.81	ND	0.083	
120-82-1	1,2,4-Trichlorobenzene	ND	0.81	ND	0.11	
91-20-3	Naphthalene	4.8	0.81	0.91	0.15	
87-68-3	Hexachlorobutadiene	ND	0.81	ND	0.075	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: lscDate: 3/27/09

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## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-5

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01377

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.1	0.82	1.2	0.48	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.82	0.47	0.17	
74-87-3	Chloromethane	ND	0.82	ND	0.40	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.064	
106-99-0	1,3-Butadiene	ND	0.82	ND	0.37	
74-83-9	Bromomethane	ND	0.82	ND	0.21	
75-00-3	Chloroethane	ND	0.82	ND	0.31	
64-17-5	Ethanol	23	8.2	12	4.4	
75-05-8	Acetonitrile	ND	0.82	ND	0.49	
107-02-8	Acrolein	1.3	0.82	0.58	0.36	
67-64-1	Acetone	22	8.2	9.2	3.5	M1
75-69-4	Trichlorofluoromethane	1.2	0.82	0.22	0.15	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.8	0.82	1.5	0.33	
107-13-1	Acrylonitrile	ND	0.82	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.82	ND	0.21	
75-09-2	Methylene Chloride	ND	0.82	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.82	ND	0.26	
76-13-1	Trichlorotrifluoroethane	ND	0.82	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.82	ND	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.82	ND	0.21	
75-34-3	1,1-Dichloroethane	ND	0.82	ND	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	0.82	ND	0.23	
108-05-4	Vinyl Acetate	ND	8.2	ND	2.3	
78-93-3	2-Butanone (MEK)	2.3	0.82	0.77	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By:         Date: 3/27/09

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MSD/MS

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-5

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-005

Test Code: EPA TO-15

Date Collected: 3/12/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 3/16/09

Analyst: Elsa Moctezuma

Date Analyzed: 3/19/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01377

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.82	ND	0.21	
141-78-6	Ethyl Acetate	1.5	0.82	0.41	0.23	
110-54-3	n-Hexane	1.4	0.82	0.40	0.23	
67-66-3	Chloroform	ND	0.82	ND	0.17	
109-99-9	Tetrahydrofuran (THF)	0.97	0.82	0.33	0.28	
107-06-2	1,2-Dichloroethane	ND	0.82	ND	0.20	
71-55-6	1,1,1-Trichloroethane	1.8	0.82	0.33	0.15	
71-43-2	Benzene	1.2	0.82	0.37	0.26	
56-23-5	Carbon Tetrachloride	0.50	0.16	0.080	0.026	
110-82-7	Cyclohexane	ND	0.82	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	0.82	ND	0.18	
75-27-4	Bromodichloromethane	ND	0.82	ND	0.12	
79-01-6	Trichloroethene	1.5	0.16	0.28	0.031	
123-91-1	1,4-Dioxane	ND	0.82	ND	0.23	
80-62-6	Methyl Methacrylate	ND	0.82	ND	0.20	
142-82-5	n-Heptane	0.83	0.82	0.20	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.82	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.82	ND	0.15	
108-88-3	Toluene	6.4	0.82	1.7	0.22	
591-78-6	2-Hexanone	ND	0.82	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.82	ND	0.096	
106-93-4	1,2-Dibromoethane	ND	0.82	ND	0.11	
123-86-4	n-Butyl Acetate	ND	0.82	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: 149Date: 3/17/09 **170**

MS/MS



## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.  
 Client Sample ID: SSD-5  
 Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931  
 CAS Sample ID: P0900931-005

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Elsa Moctezuma  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: AC01377

Date Collected: 3/12/09  
 Date Received: 3/16/09  
 Date Analyzed: 3/19/09  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.4	0.82	0.30	0.18	
127-18-4	Tetrachloroethene	ND	0.82	ND	0.12	
108-90-7	Chlorobenzene	ND	0.82	ND	0.18	
100-41-4	Ethylbenzene	38	0.82	8.8	0.19	
179601-23-1	m,p-Xylenes	140	0.82	32	0.19	
75-25-2	Bromoform	ND	0.82	ND	0.079	
100-42-5	Styrene	ND	0.82	ND	0.19	
95-47-6	o-Xylene	56	0.82	13	0.19	
111-84-2	n-Nonane	43	0.82	8.2	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.82	ND	0.12	
98-82-8	Cumene	6.1	0.82	1.2	0.17	
80-56-8	alpha-Pinene	14	0.82	2.4	0.15	
103-65-1	n-Propylbenzene	23	0.82	4.6	0.17	
622-96-8	4-Ethyltoluene	44	0.82	9.1	0.17	
108-67-8	1,3,5-Trimethylbenzene	40	0.82	8.2	0.17	
95-63-6	1,2,4-Trimethylbenzene	130	0.82	26	0.17	
100-44-7	Benzyl Chloride	ND	0.82	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.82	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.82	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.82	ND	0.14	
5989-27-5	d-Limonene	2.3	0.82	0.41	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.82	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.82	ND	0.11	
91-20-3	Naphthalene	1.3	0.82	0.25	0.16	
87-68-3	Hexachlorobutadiene	ND	0.82	ND	0.077	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CEDate: 3/27/09

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MS/LS/09



## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management, LTD.

Client Sample ID: SSD-6

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01189

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	0.87	0.72	0.50	0.42	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.72	0.46	0.14	
74-87-3	Chloromethane	ND	0.72	ND	0.35	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.72	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.72	ND	0.32	
74-83-9	Bromomethane	ND	0.72	ND	0.18	
75-00-3	Chloroethane	ND	0.72	ND	0.27	
64-17-5	Ethanol	11	7.2	6.1	3.8	
75-05-8	Acetonitrile	ND	0.72	ND	0.43	
107-02-8	Acrolein	ND	0.72	ND	0.31	
67-64-1	Acetone	ND	7.2	ND	3.0	
75-69-4	Trichlorofluoromethane	1.2	0.72	0.21	0.13	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	0.72	0.81	0.29	
107-13-1	Acrylonitrile	ND	0.72	ND	0.33	
75-35-4	1,1-Dichloroethene	ND	0.72	ND	0.18	
75-09-2	Methylene Chloride	ND	0.72	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.72	ND	0.23	
76-13-1	Trichlorotrifluoroethane	ND	0.72	ND	0.093	
75-15-0	Carbon Disulfide	ND	0.72	ND	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	0.72	ND	0.18	
75-34-3	1,1-Dichloroethane	ND	0.72	ND	0.18	
1634-04-4	Methyl tert-Butyl Ether	ND	0.72	ND	0.20	
108-05-4	Vinyl Acetate	ND	7.2	ND	2.0	
78-93-3	2-Butanone (MEK)	0.96	0.72	0.33	0.24	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: kerDate: 3/17/09

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MS6/09

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-6

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01189

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.72	ND	0.18	
141-78-6	Ethyl Acetate	3.6	0.72	0.99	0.20	
110-54-3	n-Hexane	ND	0.72	ND	0.20	
67-66-3	Chloroform	ND	0.72	ND	0.15	
109-99-9	Tetrahydrofuran (THF)	ND	0.72	ND	0.24	
107-06-2	1,2-Dichloroethane	ND	0.72	ND	0.18	
71-55-6	1,1,1-Trichloroethane	ND	0.72	ND	0.13	
71-43-2	Benzene	ND	0.72	ND	0.22	
56-23-5	Carbon Tetrachloride	0.52	0.14	0.083	0.023	
110-82-7	Cyclohexane	ND	0.72	ND	0.21	
78-87-5	1,2-Dichloropropane	ND	0.72	ND	0.15	
75-27-4	Bromodichloromethane	ND	0.72	ND	0.11	
79-01-6	Trichloroethene	0.15	0.14	0.028	0.027	
123-91-1	1,4-Dioxane	ND	0.72	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.72	ND	0.17	
142-82-5	n-Heptane	ND	0.72	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.72	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.72	ND	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.72	ND	0.13	
108-88-3	Toluene	1.0	0.72	0.27	0.19	
591-78-6	2-Hexanone	ND	0.72	ND	0.17	
124-48-1	Dibromochloromethane	ND	0.72	ND	0.084	
106-93-4	1,2-Dibromoethane	ND	0.72	ND	0.093	
123-86-4	n-Butyl Acetate	ND	0.72	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: LADate: 3/19/09

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MS/15/09

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management, LTD.  
 Client Sample ID: SSD-6  
 Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931  
 CAS Sample ID: P0900931-006

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Elsa Moctezuma  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: AC01189

Date Collected: 3/12/09  
 Date Received: 3/16/09  
 Date Analyzed: 3/19/09  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.72	ND	0.15	
127-18-4	Tetrachloroethene	ND	0.72	ND	0.11	
108-90-7	Chlorobenzene	ND	0.72	ND	0.16	
100-41-4	Ethylbenzene	4.2	0.72	0.97	0.16	
179601-23-1	m,p-Xylenes	15	0.72	3.4	0.16	
75-25-2	Bromoform	ND	0.72	ND	0.069	
100-42-5	Styrene	ND	0.72	ND	0.17	
95-47-6	o-Xylene	4.2	0.72	0.97	0.16	
111-84-2	n-Nonane	ND	0.72	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.72	ND	0.10	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	ND	0.72	ND	0.13	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	1.3	0.72	0.27	0.15	
108-67-8	1,3,5-Trimethylbenzene	1.3	0.72	0.26	0.15	
95-63-6	1,2,4-Trimethylbenzene	3.8	0.72	0.78	0.15	
100-44-7	Benzyl Chloride	ND	0.72	ND	0.14	
541-73-1	1,3-Dichlorobenzene	ND	0.72	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.72	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.72	ND	0.12	
5989-27-5	d-Limonene	ND	0.72	ND	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.72	ND	0.074	
120-82-1	1,2,4-Trichlorobenzene	ND	0.72	ND	0.096	
91-20-3	Naphthalene	ND	0.72	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.72	ND	0.067	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: isDate: 3/27/09

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MS615169

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management, LTD.

Client Sample ID: SSD-1 DUP

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-007

Test Code: EPA TO-15

Date Collected: 3/12/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 3/16/09

Analyst: Elsa Moctezuma

Date Analyzed: 3/19/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01550

Initial Pressure (psig): -1.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	4.6	0.70	2.7	0.40	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	3.5	0.70	0.71	0.14	
74-87-3	Chloromethane	ND	0.70	ND	0.34	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.70	ND	0.099	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.70	ND	0.31	
74-83-9	Bromomethane	ND	0.70	ND	0.18	
75-00-3	Chloroethane	ND	0.70	ND	0.26	
64-17-5	Ethanol	110	7.0	58	3.7	
75-05-8	Acetonitrile	ND	0.70	ND	0.41	
107-02-8	Acrolein	0.78	0.70	0.34	0.30	
67-64-1	Acetone	16	7.0	6.8	2.9	M1
75-69-4	Trichlorofluoromethane	1.2	0.70	0.22	0.12	
67-63-0	2-Propanol (Isopropyl Alcohol)	20	0.70	8.1	0.28	
107-13-1	Acrylonitrile	ND	0.70	ND	0.32	
75-35-4	1,1-Dichloroethene	ND	0.70	ND	0.18	
75-09-2	Methylene Chloride	0.76	0.70	0.22	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.70	ND	0.22	
76-13-1	Trichlorotrifluoroethane	ND	0.70	ND	0.091	
75-15-0	Carbon Disulfide	ND	0.70	ND	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.70	ND	0.18	
75-34-3	1,1-Dichloroethane	ND	0.70	ND	0.17	
1634-04-4	Methyl tert-Butyl Ether	ND	0.70	ND	0.19	
108-05-4	Vinyl Acetate	ND	7.0	ND	2.0	
78-93-3	2-Butanone (MEK)	1.5	0.70	0.51	0.24	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: laDate: 3/27/09 **232**

MS6/5/09

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

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Client: Environmental Management, LTD.

Client Sample ID: SSD-1 DUP

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-007

Test Code: EPA TO-15

Date Collected: 3/12/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 3/16/09

Analyst: Elsa Moctezuma

Date Analyzed: 3/19/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01550

Initial Pressure (psig): -1.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.70	ND	0.18	
141-78-6	Ethyl Acetate	2.1	0.70	0.58	0.19	
110-54-3	n-Hexane	0.78	0.70	0.22	0.20	
67-66-3	Chloroform	0.72	0.70	0.15	0.14	
109-99-9	Tetrahydrofuran (THF)	ND	0.70	ND	0.24	
107-06-2	1,2-Dichloroethane	ND	0.70	ND	0.17	
71-55-6	1,1,1-Trichloroethane	ND	0.70	ND	0.13	
71-43-2	Benzene	ND	0.70	ND	0.22	
56-23-5	Carbon Tetrachloride	0.50	0.14	0.080	0.022	
110-82-7	Cyclohexane	ND	0.70	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	0.70	ND	0.15	
75-27-4	Bromodichloromethane	ND	0.70	ND	0.10	
79-01-6	Trichloroethene	1.9	0.14	0.35	0.026	
123-91-1	1,4-Dioxane	ND	0.70	ND	0.19	
80-62-6	Methyl Methacrylate	ND	0.70	ND	0.17	
142-82-5	n-Heptane	0.76	0.70	0.19	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.70	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	0.70	ND	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.70	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.70	ND	0.13	
108-88-3	Toluene	2.9	0.70	0.78	0.18	
591-78-6	2-Hexanone	ND	0.70	ND	0.17	
124-48-1	Dibromochloromethane	ND	0.70	ND	0.082	
106-93-4	1,2-Dibromoethane	ND	0.70	ND	0.090	
123-86-4	n-Butyl Acetate	ND	0.70	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: litDate: 3/27/09

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MS/MS

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management, LTD.

Client Sample ID: SSD-1 DUP

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01550

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.70	ND	0.15	
127-18-4	Tetrachloroethene	ND	0.70	ND	0.10	
108-90-7	Chlorobenzene	ND	0.70	ND	0.15	
100-41-4	Ethylbenzene	3.9	0.70	0.90	0.16	
179601-23-1	m,p-Xylenes	14	0.70	3.2	0.16	
75-25-2	Bromoform	ND	0.70	ND	0.067	
100-42-5	Styrene	ND	0.70	ND	0.16	
95-47-6	o-Xylene	5.1	0.70	1.2	0.16	
111-84-2	n-Nonane	1.6	0.70	0.31	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.70	ND	0.10	
98-82-8	Cumene	ND	0.70	ND	0.14	
80-56-8	alpha-Pinene	1.7	0.70	0.30	0.12	
103-65-1	n-Propylbenzene	0.88	0.70	0.18	0.14	
622-96-8	4-Ethyltoluene	1.6	0.70	0.34	0.14	
108-67-8	1,3,5-Trimethylbenzene	2.0	0.70	0.41	0.14	
95-63-6	1,2,4-Trimethylbenzene	5.6	0.70	1.1	0.14	
100-44-7	Benzyl Chloride	ND	0.70	ND	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.70	ND	0.12	
106-46-7	1,4-Dichlorobenzene	ND	0.70	ND	0.12	
95-50-1	1,2-Dichlorobenzene	ND	0.70	ND	0.12	
5989-27-5	d-Limonene	3.8	0.70	0.69	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.70	ND	0.072	
120-82-1	1,2,4-Trichlorobenzene	ND	0.70	ND	0.094	
91-20-3	Naphthalene	3.1	0.70	0.59	0.13	
87-68-3	Hexachlorobutadiene	ND	0.70	ND	0.065	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:   Gg  Date:   3/27/09  

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MS6/1909

## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Management, LTD.

Client Sample ID: Outdoor Ambient

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00893

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/20/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	0.82	0.63	0.48	0.37	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.63	0.46	0.13	
74-87-3	Chloromethane	ND	0.63	ND	0.31	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	ND	0.090	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.63	ND	0.28	
74-83-9	Bromomethane	ND	0.63	ND	0.16	
75-00-3	Chloroethane	ND	0.63	ND	0.24	
64-17-5	Ethanol	ND	6.3	ND	3.3	
75-05-8	Acetonitrile	ND	0.63	ND	0.38	
107-02-8	Acrolein	ND	0.63	ND	0.27	
67-64-1	Acetone	7.6	6.3	3.2	2.7	M1
75-69-4	Trichlorofluoromethane	1.2	0.63	0.22	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	0.63	1.1	0.26	
107-13-1	Acrylonitrile	ND	0.63	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.63	ND	0.16	
75-09-2	Methylene Chloride	ND	0.63	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.63	ND	0.20	
76-13-1	Trichlorotrifluoroethane	ND	0.63	ND	0.082	
75-15-0	Carbon Disulfide	ND	0.63	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.63	ND	0.16	
75-34-3	1,1-Dichloroethane	ND	0.63	ND	0.16	
1634-04-4	Methyl tert-Butyl Ether	ND	0.63	ND	0.17	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	0.82	0.63	0.28	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: 62Date: 3/27/09

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MS 6/15/09



## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Management, LTD.

Client Sample ID: Outdoor Ambient

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00893

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/20/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.63	ND	0.16	
141-78-6	Ethyl Acetate	ND	0.63	ND	0.17	
110-54-3	n-Hexane	ND	0.63	ND	0.18	
67-66-3	Chloroform	ND	0.63	ND	0.13	
109-99-9	Tetrahydrofuran (THF)	ND	0.63	ND	0.21	
107-06-2	1,2-Dichloroethane	ND	0.63	ND	0.16	
71-55-6	1,1,1-Trichloroethane	ND	0.63	ND	0.12	
71-43-2	Benzene	ND	0.63	ND	0.20	
56-23-5	Carbon Tetrachloride	0.50	0.13	0.080	0.020	
110-82-7	Cyclohexane	ND	0.63	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.63	ND	0.14	
75-27-4	Bromodichloromethane	ND	0.63	ND	0.094	
79-01-6	Trichloroethene	0.28	0.13	0.053	0.023	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.63	ND	0.15	
142-82-5	n-Heptane	ND	0.63	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.63	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.63	ND	0.12	
108-88-3	Toluene	1.3	0.63	0.34	0.17	
591-78-6	2-Hexanone	ND	0.63	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.63	ND	0.074	
106-93-4	1,2-Dibromoethane	ND	0.63	ND	0.082	
123-86-4	n-Butyl Acetate	ND	0.63	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: lsDate: 3/23/09

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MS6/5/09



## COLUMBIA ANALYTICAL SERVICES, INC.

## RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Management, LTD.

Client Sample ID: Outdoor Ambient

Client Project ID: Kings - Storage / 3-2009

CAS Project ID: P0900931

CAS Sample ID: P0900931-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00893

Date Collected: 3/12/09

Date Received: 3/16/09

Date Analyzed: 3/20/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.63	ND	0.13	
127-18-4	Tetrachloroethene	ND	0.63	ND	0.093	
108-90-7	Chlorobenzene	ND	0.63	ND	0.14	
100-41-4	Ethylbenzene	ND	0.63	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.63	ND	0.15	
75-25-2	Bromoform	ND	0.63	ND	0.061	
100-42-5	Styrene	ND	0.63	ND	0.15	
95-47-6	o-Xylene	ND	0.63	ND	0.15	
111-84-2	n-Nonane	ND	0.63	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.63	ND	0.092	
98-82-8	Cumene	ND	0.63	ND	0.13	
80-56-8	alpha-Pinene	ND	0.63	ND	0.11	
103-65-1	n-Propylbenzene	ND	0.63	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.63	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.63	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.63	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.63	ND	0.10	
106-46-7	1,4-Dichlorobenzene	ND	0.63	ND	0.10	
95-50-1	1,2-Dichlorobenzene	ND	0.63	ND	0.10	
5989-27-5	d-Limonene	ND	0.63	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	ND	0.065	
120-82-1	1,2,4-Trichlorobenzene	ND	0.63	ND	0.085	
91-20-3	Naphthalene	ND	0.63	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: lcaDate: 3/23/09

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MS 6/15/09

**Columbia Analytical Services™**  
2655 Park Center Drive, Suite A  
Simi Valley, California 93065  
Phone (805) 526-7161  
Fax (805) 526-7270

Company Name & Address (Reporting Information) Environmental Management Ltd 41 Franck Road Stony Point, NY 10908-3012				Project Name KINGS - STORAGE				CAS Project No. P0900931			
Project Manager Donald Wannermaker				Project Number 3-2009				CAS Contact Kate Aguilera			
Phone 845-429-1141				Fax 845-429-1166				Analysis Method and/or Analytes			
P.O. # / Billing Information SAMS				Sampler (Print & Sign) MELINDA HIGDON/ Melinda Higdon				Comments e.g. Actual Preservative or specific instructions			
Email Address for Result Reporting DWANNAKER@EMLWEB.COM				Sample Type Liquid				Flow Controller (Bar Code - FC #)			
Client Sample ID				Time Collected				Sample Volume			
Laboratory ID Number				Date Collected				Sample Volume			
SSD-1				9:06				6L			
SSD-2				9:15				6L			
SSD-3				9:10				6L			
SSD-4				9:45				6L			
SSA-5				9:50				6L			
SSA-6				10:00				6L			
SSD-1 dup				4:47				6L			
Outdoor Ambient				9:00				6L			
Trip Blank				---				6L			

Report Tier Levels - please select Tier I - (Results/Default if not specified) Tier II - (Results + QC)				Tier III - (Data Validation Package) 10% Surcharge Tier V - (client specified)				Project Requirements (MRLs, QAPP) # D-10.49/m <sup>3</sup> for VC, GCL, etc. ASP CAT B data deliverable as per NIS 004 SFS Guidance			
Relinquished by: (Signature) <i>Donald Wannermaker</i>				Relinquished by: (Signature) <i>Donald Wannermaker</i>				Relinquished by: (Signature) <i>Melinda Higdon</i>			
Date: 3/10/09				Date: 3/10/09				Date: 3/10/09			
Time: 6:30				Time: 6:30				Time: 17:30			
Cooler / Blank				Cooler / Blank				Cooler / Blank			
Temperature				Temperature				Temperature			

## **ATTACHMENT D**

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**ENVIRONMENTAL MANAGEMENT, LTD.**

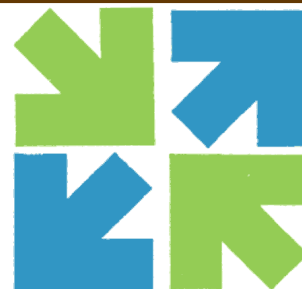
*On the Lake @ 41 Franck Road, Stony Point, New York 10980*

*Phone (845) 429-1141 • Fax (845) 429-1166*

Internet: [www.emlweb.com](http://www.emlweb.com)

Email: [info@emlweb.com](mailto:info@emlweb.com)

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June 30, 2009

Marbledale Rd LLC c/o Storage Deluxe  
50 Main Street, Suite 812  
White Plains, New York 10606  
Attn: Steven Novenstein

**Re: March 2009 Post-Mitigation Air Quality Testing  
Storage Deluxe, 40 Marbledale Road, Tuckahoe, NY  
(formerly Kings Electronics Co., Inc.) Site No. V 00234-3**

Dear Mr. Novenstein:

Enclosed please find results of the post-mitigation indoor and outdoor air testing completed at the Storage Deluxe Tuckahoe facility (i.e.; your premises) pursuant to the sub-slab depressurization systems Operation, Maintenance & Monitoring (OM&M) Plan approved by NYS Department of Environmental Conservation (NYSDEC) and NYS Department of Health (NYSDOH). Air sampling was conducted on March 12, 2009, by Environmental Management, Ltd. (EML) on behalf of Weissman Holdings, Inc., formerly Kings Electronics Co., Inc. (Kings). An attached table summarizes our results. Copies of the analytical laboratory sheets for each sample location are included, along with the completed questionnaire/inventory for the facility.

Pursuant to the OM&M Plan, this air monitoring constitutes the post-mitigation air sampling required by Kings at your premises. No other air monitoring is required while the SSD systems are operational and working properly. In that regard, routine maintenance of the SSD systems, as required under the OM&M Plan, was carried out by EML, Mitigation Tech and Geovation Engineering, PC on May 21, 2009. Routine maintenance findings will be included within a separate report.

On behalf of Kings, thank you for your assistance and that of your staff. If you have any questions regarding the sampling results, please do not hesitate to contact me by phone at 845-429-1141 or call Nicole Bonsteel at NYSDEC toll free at 888-459-8667. You may also contact Carl Obermeyer at NYSDOH by phone at 845-794-2045, or by email at [cjo01@health.state.ny.us](mailto:cjo01@health.state.ny.us), with any health related questions.

Very truly yours,

**Environmental Management, Ltd.**

***Donald J. Wanamaker***

Donald J. Wanamaker  
President  
encl.

# ATTACHMENT B

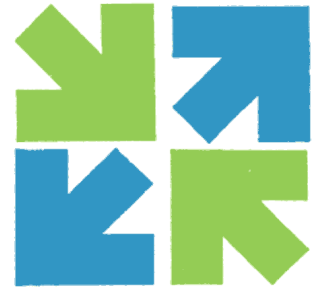
To Post-Remedial Annual Report

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**ENVIRONMENTAL MANAGEMENT, LTD.**

On the Lake @ 41 Franck Road, Stony Point, New York 10980

Phone (845) 429-1141 • Fax (845) 429-1166



Internet: [www.emlweb.com](http://www.emlweb.com)

Email: [info@emlweb.com](mailto:info@emlweb.com)

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August 10, 2009

Nicole Bonsteel, P.E.

New York State Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, 12<sup>th</sup> Floor

Albany, New York 12233

**Re: OM&M Report (Routine Maintenance) for SSD Systems Installed at  
40 Marbledale Road, Tuckahoe, Westchester County  
Weissman Holdings, Inc. (formerly Kings Electronics Co., Inc.)  
Site # V 00237-3**

Dear Ms. Bonsteel:

Kings Electronics Co., Inc. (Kings) installed six sub-slab depressurization (SSD) systems at the Storage Deluxe self storage facility (formerly Kings Electronics) located at 40 Marbledale Road, Tuckahoe, Westchester County, New York (the Site). All SSD systems were deemed operational in March 2008. Environmental Management, Ltd. (EML) submitted an Operation, Maintenance & Monitoring (OM&M)/ Site Management Plan for the SSD systems, to New York State DEC and DOH (the State), on May 16, 2008. Its purpose was to set forth OM&M protocols and to help ensure that the SSD systems installed at the Site will continue to operate properly. EML's OM&M Plan was approved by the State on August 6, 2008. Post-Mitigation Indoor Air Quality (IAQ) Sampling pursuant to the OM&M Plan was conducted on March 12, 2009. A report of the IAQ results was submitted to the State on June 30, 2009.

### **Routine Maintenance**

The OM&M Plan requires that specified routine maintenance commence within 18 months of the date the SSD systems became operational and occur every 12 to 18 months thereafter, until the SSD systems are shut down. A report of the Routine Maintenance conducted on May 21, 2009 is enclosed herein.



Please contact me if you have any questions or comments.

Very truly yours,

**Environmental Management, Ltd.**

*Donald J. Wanamaker*

Donald J. Wanamaker,  
President

cc: Carl Obermeyer, NYS DOH

# **REPORT**

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**ENVIRONMENTAL MANAGEMENT, LTD.**

*On the Lake @ 41 Franck Road, Stony Point, New York 10980*

*Phone (845) 429-1141 • Fax (845) 429-1166*

Internet: [www.emlweb.com](http://www.emlweb.com)

Email: [info@emlweb.com](mailto:info@emlweb.com)

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**OM&M Report Summarizing Routine Maintenance of SSD Systems**  
**40 Marbledale Road, Tuckahoe, Westchester County**  
**NYSDEC Site # V 00237-3**  
**May 21, 2009**

Kings Electronics Co., Inc. (Kings) installed six sub-slab depressurization (SSD) systems at the Storage Deluxe self storage facility (formerly Kings Electronics) located at 40 Marbledale Road, Tuckahoe, Westchester County, New York (the Site). All SSD systems were deemed operational in March 2008. An Operation, Maintenance & Monitoring (OM&M)/ Site Management Plan was submitted to the State on May 16, 2008. Its purpose was to set forth OM&M protocols and to help ensure that the SSD systems installed at the Site will continue to operate properly. The OM&M/ Site Management Plan for the self storage facility was approved by the State on August 6, 2008.

The OM&M Plan requires that specified routine maintenance commence within 18 months of the date the SSD systems became operational and occur every 12 to 18 months thereafter, until the SSD systems are shut down.

During routine maintenance, Kings or its agents must:

- (a) Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices/manometers, labeling on systems, etc.);
- (b) Inspect all components for condition and proper operation;
- (c) Inspect metal cages surrounding drop points to ensure they are intact;
- (d) Identify and repair any leaks in accordance with Sections 4.3.1(a) of NYSDOH's *October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (i.e.; with the systems running, smoke tubes will be used to check for leaks through concrete cracks, floor joints and at the suction points and any leaks will be re-sealed until smoke is no longer observed flowing through the opening).
- (e) Inspect the exhaust or discharge point(s) to verify that no air intakes have been located nearby;
- (f) Interview an appropriate Storage Deluxe representative seeking comments and observations regarding the operation of the SSD system.

Preventative maintenance, repairs and/or adjustments will be made to the SSD system, as necessary, to ensure its continued effectiveness.

## **Routine Maintenance, May 2009**

Routine maintenance was conducted at the Site on May 21, 2009 by Bruce Munson, Project Manager, Environmental Management, Ltd. (EML); Nicholas Mouganis, President, Mitigation Tech (the SSD installer); and Robert Zimmer, PE, Vice President, Geovation Engineering, PC (Geovation). Ralph Resignato, Corporate Facilities Director for Storage Deluxe, provided access to the Site, accompanied the inspection team at certain locations and was informed of significant observations as they arose.

The following summarizes the routine maintenance performed (see Exhibit 1, Annual Inspection & Routine Maintenance Form for individual systems):

- (a) **Visual Inspection:** EML and Geovation conducted a visual inspection of the six SSD Systems at Storage Deluxe. The vent fans, piping, warning devices, systems labeling were intact and in place, as installed.
- (b) **Component Condition and Operation:** A more detailed inspection of the SSD Systems components confirmed that the vent fans were running, there was no damage to the piping and the manometer readings were at the marks established during post mitigation confirmation testing by Mitigation Tech. Manometer readings obtained are recorded on the Visual Inspection Form for SSD Systems, Exhibit 2. Based on this inspection, all components of the SSD systems appeared to be in good condition and operating properly.
- (c) SSD system drop points are located (with one exception) along the corrugated metal interior walls of individual customer storage units and enclosed (solid corrugated metal cages) against the wall with the same material. At the time of this routine maintenance, most customer storage units enclosing down drops were rented (i.e., locked and inaccessible). The point at which the down drop enters the cage along the top of the storage unit wall is generally visible. No damage was noted. Unrented units were opened and the cages inspected. All down drops were intact.
- (d) **Identification and Repair of any Leaks:** The SSD systems were running at all times during the routine maintenance. The concrete facility floors, where visible within the public corridors and loading docks, were, with one exception, in excellent condition. At the loading dock for Building 6 a portion of the floor had cracked and shifted somewhat. Mitigation Tech used a smoke tube to check the crack for leaks, which were observed at several points. The crack was cleaned out and sealed along its length with polyurethane caulk, until smoke was no longer drawn in. As noted above, all down drops, including the point at which they enter the suction points they serve, are enclosed within solid corrugated metal cages and are therefore not accessible for smoke testing.
- (e) **Air Intakes:** The vent discharge point for each of the systems was observed; no air intakes have been located nearby.
- (f) **Interview:** Mr. Resignato, Corporate Facilities Director for Storage Deluxe was interviewed. He was cognizant of the recent replacement of a failed fan and had no problems with the systems' operation.

## **Pressure Field Extension Testing, May 2009**

Upon completion of the SSD system installations at the end of 2007, Mitigation Tech conducted post-mitigation confirmation testing, which included pressure field extension testing. (A copy of that report is attached hereto as Exhibit 3.) Although field extension testing is not included within the requirements of the approved OM&M Plan, the installer (Mitigation Tech) felt that field extension test readings would provide the best diagnostic indicator of system effectiveness. Consequently, field extension testing was carried out. Where the original (i.e.; 2007) test points drilled through the slab could not be located or accessed (due to floor repainting and completion or rental of storage units) new points were drilled in adjacent hallway locations, with the agreement of Mr. Resignato.

Results and locations of the pressure field extension testing in May 2009 for the six individual systems are presented on system layouts in Exhibit 4.

Mitigation Tech's report of Routine Maintenance is attached as Exhibit 5.

### **Exhibits:**

1. Annual Inspection & Routine Maintenance Forms (6)
2. Visual Inspection Form – SSD Systems (1)
3. Mitigation Tech Report, 12/3/07, SSD installation and testing
4. System plan drawings with pressure field readings, manometer readings, etc. (6)
5. Mitigation Tech Report of Routine Maintenance on 5/21/09

## **EXHIBIT 1**

**Annual Inspection & Routine Maintenance Form**  
**Sub Slab Depressurization (SSD) Systems**  
 Storage Deluxe, 40 Marbledale Road, Tuckahoe NY

SSD System # 1 Storage Deluxe Building(s) 1 Date 5/21/09

**Routine Maintenance:** Kings or its agents will commence routine maintenance within 18 months of the date the system became operational and such maintenance will occur every 12 to 18 months thereafter, until Kings is no longer responsible for SSD systems operations.

Maintenance Item	Check	Comments
Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices/manometers, labeling on systems, etc.);	✓	
Inspect all components for condition and proper operation;	✓	
Inspect metal cages surrounding drop points to ensure they are intact;	✓	All lockers rented
Identify and repair any leaks (e.g., with the systems running, use smoke tubes to check for leaks through concrete cracks, floor joints and at accessible suction points. Reseal any leaks until smoke is no longer observed flowing through the opening).	✓	No leaks in slab
Inspect the exhaust or discharge point(s) to verify that no air intakes have been located nearby;	✓	None
Interview an appropriate Storage Deluxe representative seeking comments and observations regarding the operation of the SSD system.	✓	Interviewee: Ralph Designator Corp. Facilities Director
Conduct appropriate pressure field extension testing of SSD System.	✓	Demo locker in showroom

Action taken, if deficiencies noted: \_\_\_\_\_

Inspected by Fernando D. Duran

Organization Env. Bgt + Ltd.

Resolution:

Date: \_\_\_\_\_ Name: \_\_\_\_\_ Initial: \_\_\_\_\_



**Annual Inspection & Routine Maintenance Form**  
**Sub Slab Depressurization (SSD) Systems**  
 Storage Deluxe, 40 Marbledale Road, Tuckahoe NY

SSD System # 2

Storage Deluxe Building(s) 3 + 4

Date 5/21/09

**Routine Maintenance:** Kings or its agents will commence routine maintenance within 18 months of the date the system became operational and such maintenance will occur every 12 to 18 months thereafter, until Kings is no longer responsible for SSD systems operations.

Maintenance Item	Check	Comments
Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices/manometers, labeling on systems, etc.);	✓	
Inspect all components for condition and proper operation;	✓	
Inspect metal cages surrounding drop points to ensure they are intact;	✓	where located in unrented lockers
Identify and repair any leaks (e.g., with the systems running, use smoke tubes to check for leaks through concrete cracks, floor joints and at accessible suction points. Reseal any leaks until smoke is no longer observed flowing through the opening).	✓	Cracked floor in Locker 1150 smoke tested on 7/15. 0.016 wci maintained at two adjacent TPs
Inspect the exhaust or discharge point(s) to verify that no air intakes have been located nearby;	✓	None
Interview an appropriate Storage Deluxe representative seeking comments and observations regarding the operation of the SSD system.	✓	Interviewee: Ralph Resignato, Corporate Facilities Director
Conduct appropriate pressure field extension testing of SSD System.	✓	original TP in Bldg 4 Three new TPs in Bldg 3

Action taken, if deficiencies noted: \_\_\_\_\_

Inspected by Thomas D. Deane

Organization Env. Mgt Ltd

Resolution:

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Initial: \_\_\_\_\_

**Annual Inspection & Routine Maintenance Form**  
**Sub Slab Depressurization (SSD) Systems**  
 Storage Deluxe, 40 Marbledale Road, Tuckahoe NY

SSD System # 3      Storage Deluxe Building(s) 244      Date 5/21/09

**Routine Maintenance:** Kings or its agents will commence routine maintenance within 18 months of the date the system became operational and such maintenance will occur every 12 to 18 months thereafter, until Kings is no longer responsible for SSD systems operations.

Maintenance Item	Check	Comments
Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices/manometers, labeling on systems, etc.);	✓	
Inspect all components for condition and proper operation;	✓	
Inspect metal cages surrounding drop points to ensure they are intact;	✓	where accessible.
Identify and repair any leaks (e.g., with the systems running, use smoke tubes to check for leaks through concrete cracks, floor joints and at accessible suction points. Reseal any leaks until smoke is no longer observed flowing through the opening).	✓	No cracks in slab
Inspect the exhaust or discharge point(s) to verify that no air intakes have been located nearby;	✓	None
Interview an appropriate Storage Deluxe representative seeking comments and observations regarding the operation of the SSD system.	✓	Interviewee: Ralph Resignato, Corp. Facilities Director
Conduct appropriate pressure field extension testing of SSD System.	✓	Original TPs

Action taken, if deficiencies noted: \_\_\_\_\_

Inspected by Frank B. Resignato

Organization Env. Mgt. Ltd.

Resolution:

Date: \_\_\_\_\_ Name: \_\_\_\_\_ Initial: \_\_\_\_\_

**Annual Inspection & Routine Maintenance Form**  
**Sub Slab Depressurization (SSD) Systems**  
 Storage Deluxe, 40 Marbledale Road, Tuckahoe NY

SSD System # 4

Storage Deluxe Building(s) 5 & 6

Date 5/21/09

**Routine Maintenance:** Kings or its agents will commence routine maintenance within 18 months of the date the system became operational and such maintenance will occur every 12 to 18 months thereafter, until Kings is no longer responsible for SSD systems operations.

Maintenance Item	Check	Comments
Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices/manometers, labeling on systems, etc.);	✓	Leaves & debris from hillside collecting at rear of Bldg 6. Close to exit pipe to fan.
Inspect all components for condition and proper operation;	✓	
Inspect metal cages surrounding drop points to ensure they are intact;	✓	Where accessible
Identify and repair any leaks (e.g., with the systems running, use smoke tubes to check for leaks through concrete cracks, floor joints and at accessible suction points. Reseal any leaks until smoke is no longer observed flowing through the opening).	✓	Crack in floor of loading dock show leaking at several spots. Cleaned out & sealed w. polyurethane caulk
Inspect the exhaust or discharge point(s) to verify that no air intakes have been located nearby;	✓	None
Interview an appropriate Storage Deluxe representative seeking comments and observations regarding the operation of the SSD system.	✓	Interviewee: Ralph Resignato Corp. Facilities Director
Conduct appropriate pressure field extension testing of SSD System.	✓	Three original TPs

Action taken, if deficiencies noted: \_\_\_\_\_

Inspected by Ernest M. Picasso

Organization Env. Mgt Ltd

Resolution:

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Initial: \_\_\_\_\_



**Annual Inspection & Routine Maintenance Form**  
**Sub Slab Depressurization (SSD) Systems**  
 Storage Deluxe, 40 Marbledale Road, Tuckahoe NY

SSD System # 5      Storage Deluxe Building(s) 7      Date 5/21/09

**Routine Maintenance:** Kings or its agents will commence routine maintenance within 18 months of the date the system became operational and such maintenance will occur every 12 to 18 months thereafter, until Kings is no longer responsible for SSD systems operations.

Maintenance Item	Check	Comments
Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices/manometers, labeling on systems, etc.);	✓	
Inspect all components for condition and proper operation;	✓	
Inspect metal cages surrounding drop points to ensure they are intact;	✓	Locker 0013 - Drop point freestanding near IW-12. Not protected within unit.
Identify and repair any leaks (e.g., with the systems running, use smoke tubes to check for leaks through concrete cracks, floor joints and at accessible suction points. Reseal any leaks until smoke is no longer observed flowing through the opening).	✓	Hallways covered w. carpet tiles. Slab intact where accessible in unvented lockers.
Inspect the exhaust or discharge point(s) to verify that no air intakes have been located nearby;	✓	None
Interview an appropriate Storage Deluxe representative seeking comments and observations regarding the operation of the SSD system.	✓	Interviewee: Ralph Resignato Corporate Facilities Director
Conduct appropriate pressure field extension testing of SSD System.	✓	Basement not built out when system installed & tested. Original TPs covered over.

Action taken, if deficiencies noted: \_\_\_\_\_

Inspected by Ernest J. DeLuca

Organization Kew-Regt. Ltd.

Resolution: \_\_\_\_\_

Date: \_\_\_\_\_ Name: \_\_\_\_\_ Initial: \_\_\_\_\_

**Annual Inspection & Routine Maintenance Form**  
**Sub Slab Depressurization (SSD) Systems**  
 Storage Deluxe, 40 Marbledale Road, Tuckahoe NY

SSD System # 6

Storage Deluxe Building(s) 9

Date 5/21/09

**Routine Maintenance:** Kings or its agents will commence routine maintenance within 18 months of the date the system became operational and such maintenance will occur every 12 to 18 months thereafter, until Kings is no longer responsible for SSD systems operations.

Maintenance Item	Check	Comments
Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices/manometers, labeling on systems, etc.);	✓	
Inspect all components for condition and proper operation;	✓	
Inspect metal cages surrounding drop points to ensure they are intact;	✓	Where visible
Identify and repair any leaks (e.g., with the systems running, use smoke tubes to check for leaks through concrete cracks, floor joints and at accessible suction points. Reseal any leaks until smoke is no longer observed flowing through the opening).	✓	Floor slab intact
Inspect the exhaust or discharge point(s) to verify that no air intakes have been located nearby;	✓	None
Interview an appropriate Storage Deluxe representative seeking comments and observations regarding the operation of the SSD system.	✓	Interviewee: Ralph Resignato Corporate Facilities Director
Conduct appropriate pressure field extension testing of SSD System.	✓	New TP near original

Action taken, if deficiencies noted: \_\_\_\_\_

Inspected by James D. Olenick

Organization Env. Mgt. Ltd

Resolution:

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Initial: \_\_\_\_\_

## **EXHIBIT 2**

**Visual Inspection Form – SSD Systems**  
Storage Deluxe, 40 Marbledale Road, Tuckahoe NY

Date 5/21/09

For use during the annual Routine Maintenance of the SSD systems, and may be used for other visual checks. SSD system exhaust fans shall be checked for obvious signs of deterioration (e.g., excessive noise, vibration, overheating, loose or damaged mountings). Manometer readings will also be recorded, to document current system vacuum.

SSD System	Fan Operation/Comments	Manometer Vacuum (wei)
1 – Office/Showroom	Normal	17
2 – Buildings 3 & 4	Normal	2.0
3 – Buildings 2 & 4	Normal	0.9
4 – Buildings 5 & 6	Normal	1.6
5 – Building 7	Normal	0.9
6 – Building 9	Normal	2.6

Other observations:

Inspected by Fernando Munoz  
Organization Env. Syst Ltd



## **EXHIBIT 3**

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# mitigation tech *radon correction specialists*

December 3, 2007

Mr. Bruce Munson  
Environmental Management, Ltd.  
41 Franck Rd  
Stony Point, NY 10980-3012  
*Via email attachment: bmunson@emlweb.com, dwanamaker@emlweb.com*

**Re: Completion of SSD System Installation  
Former Kings Electronics Site  
40 Marbledale Rd., Tuckahoe, NY 10707**

Dear Mr. Munson:

On November 8, 2007 we visited this location A) to complete several outstanding work items, B) to conduct a thorough inspection and performance evaluation of the installed SSD system, and C) to certify system effectiveness. Our report follows.

System configuration has changed substantially since submission and acceptance of our original work plan. Causes include the accommodation of new owner's design and construction schedule, and the determination by others that intrinsically safe blowers would be required at three locations, Fan #2, #3 and #5. Utilizing a field designed grid and incorporating connections to pre-existing covered trenches, six specialized fans furnish negative pressure differential to all areas of the sub-slab except Building 8 and the sprinkler room (unoccupied). The intent of the original work plan has been accomplished.

- A. Outstanding work items completed on 11-08-07
  - 1. Add exterior sampling port to building 1 fan system
  - 2. Add (2) suction points to building 5 – one at each floor level with valve as required; connect to B-6 SSD system; test for influence
- B. Inspection and Performance Evaluation - We performed the following procedures and recorded the following observations:
  - 1. Conduct a visual inspection of the complete SSD system (e.g., vent fans, piping, vacuum gauges, labeling, etc.); **Observation : Acceptable**
  - 2. Inspect all components for condition and proper operation; **Observation : Acceptable**
  - 3. Identify (and repair) any leaks in accordance with Sections 4.3.1(a) of the NYS DOH Guidance **Observation: No leaks**
  - 4. Inspect the discharge point to verify that no air intakes have been located nearby; **Observation: No intakes**
  - 5. Interview the primary occupant of the premises seeking comments regarding the operation of the SSD system; **No comments of concern**
  - 6. Inspect all vertical pipe drops to suction cavities to ensure that metal protective coverings have been installed; **Observation : Acceptable;**

**Exceptions – a)** two new drops in building 5; owner agrees to add coverings to these before use by public, **b)** currently freestanding pipe drop in basement of B-7; owner agrees to build cage around this pipe once area is built out

7. List location of all suction cavities and plot on floor plan

B-1: 1002, 1004, 1007, 1011

B-2: 1024, 1029

B-3: 1080, 1090, 1119, 1150, 1130, 1155, 1167, 1205

B-4: 1236, 1255, 1260, 1264, 1268, 1271

B-5: 1286, 1290

B-6: 1301, 1304, 1307, 1312, 1315, 1317, 1326

B-7: central location (unnumbered)

B-8: None

B-9: 1430, 1433, 1437

8. Conduct pressure field extension testing (to ensure that the system is maintaining a vacuum beneath the entire slab).

<b>Bldg.</b>	<b>Location</b>	<b>Differential wci</b>	<b>Fan System</b>
1	Sales demo	.007	1
2	1035	.020	3
2	1031	.017	3
3	1213	.025	2
4	1226	.314	2
5	1285	.005	4
5	1292	.026	4
6	1302	.095	4
7	1408	.013	5
7	1416	.008	5
8	N/A	N/A	-
9	1447	.047	6

9. No additional repairs or adjustments made

C. I certify that the installed system is effective.

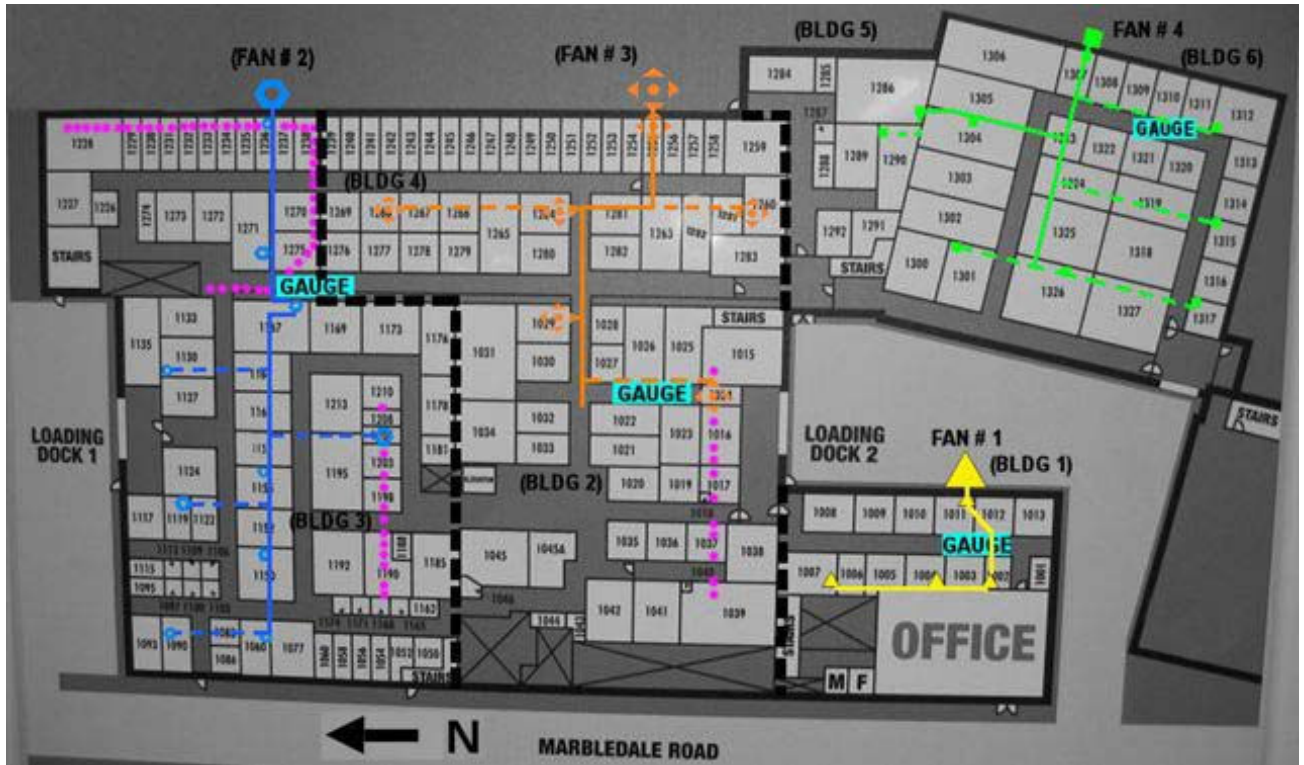
If you have any questions, please contact me.

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722

Attachment: schematic showing system components overlaid on a floor plan furnished by Storage Deluxe

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**55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-7430**



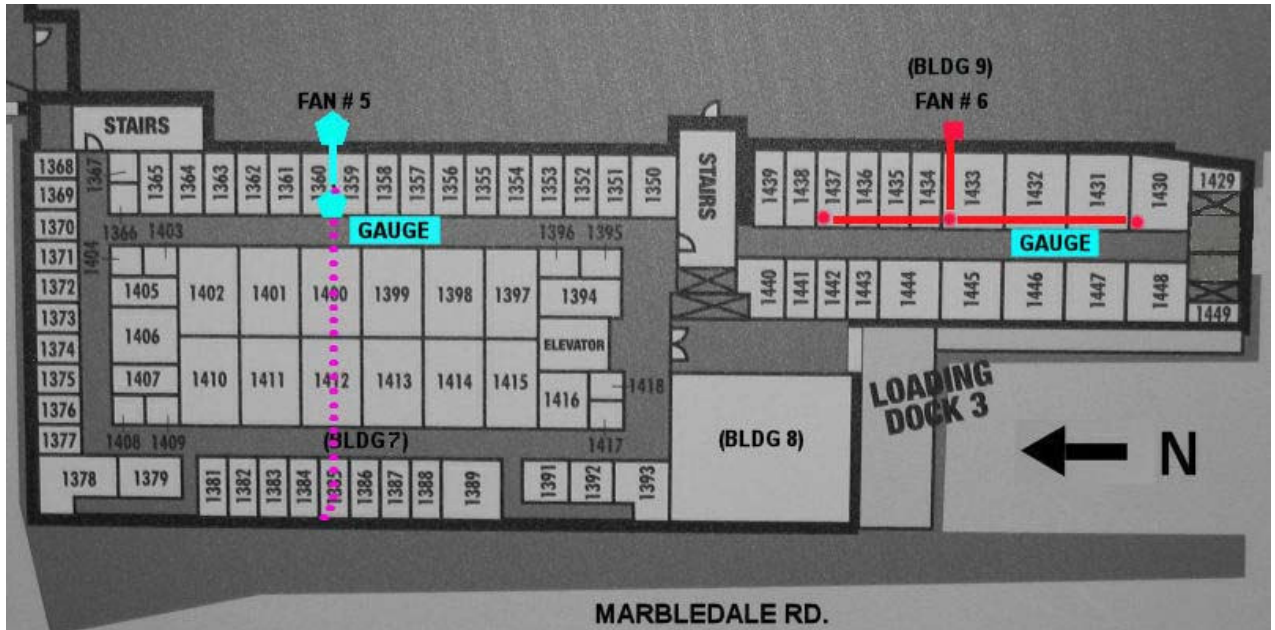
## SSD systems. Buildings 1 through 6 - Storage Deluxe, Tuckahoe, NY

Within the four color-coded systems illustrated, solid lines represent 3" PVC pipe and dashed lines 2" PVC pipe.

Dotted purple lines are pre-existing sub slab trenches.

# mitigation tech

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-7430



## SSD systems. Buildings 7 through 9 – Storage Deluxe, Tuckahoe, NY

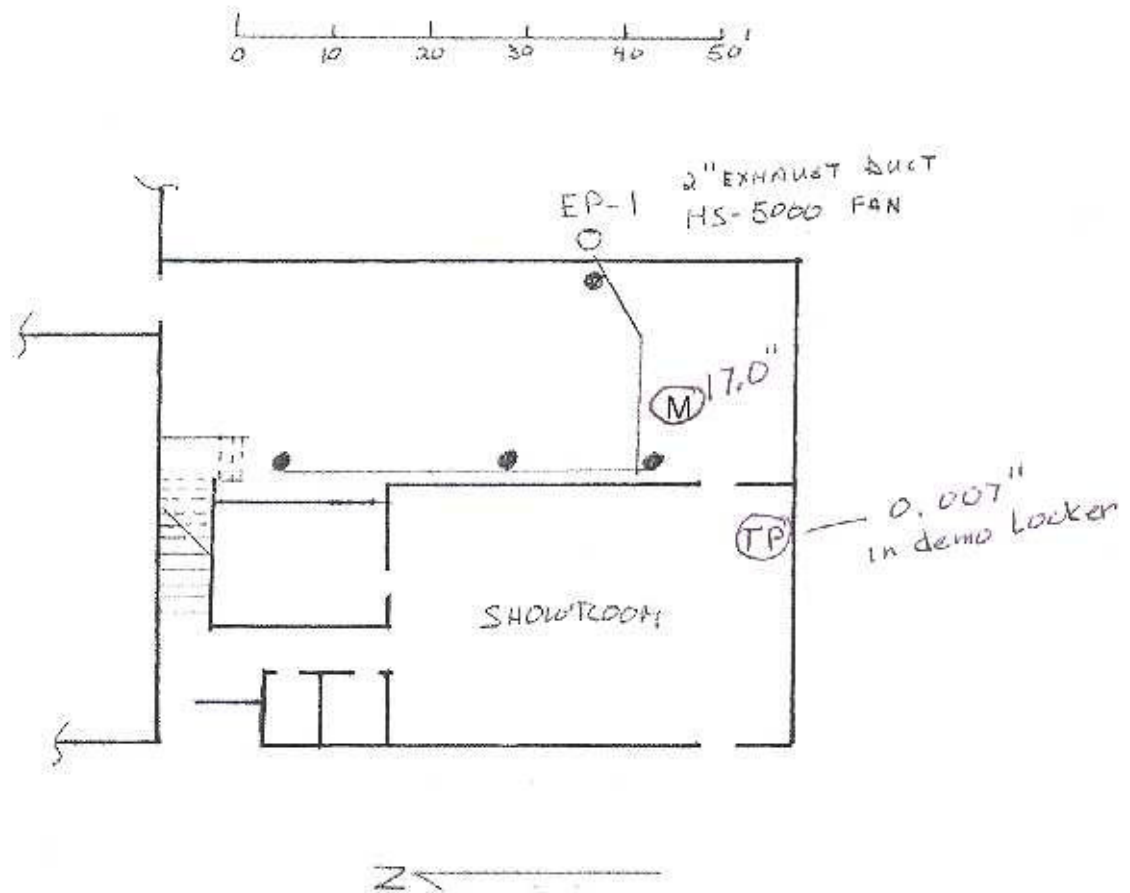
The two color coded systems utilize 3" PVC pipe throughout.  
Dotted purple line is a pre-existing sub slab trench.

# mitigation tech

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-7430

## **EXHIBIT 4**

## System 1, Building 1



## KEY

- Suction Point
- Exhaust Duct
- 3" Duct
- - - 2" Duct
- M Manometer

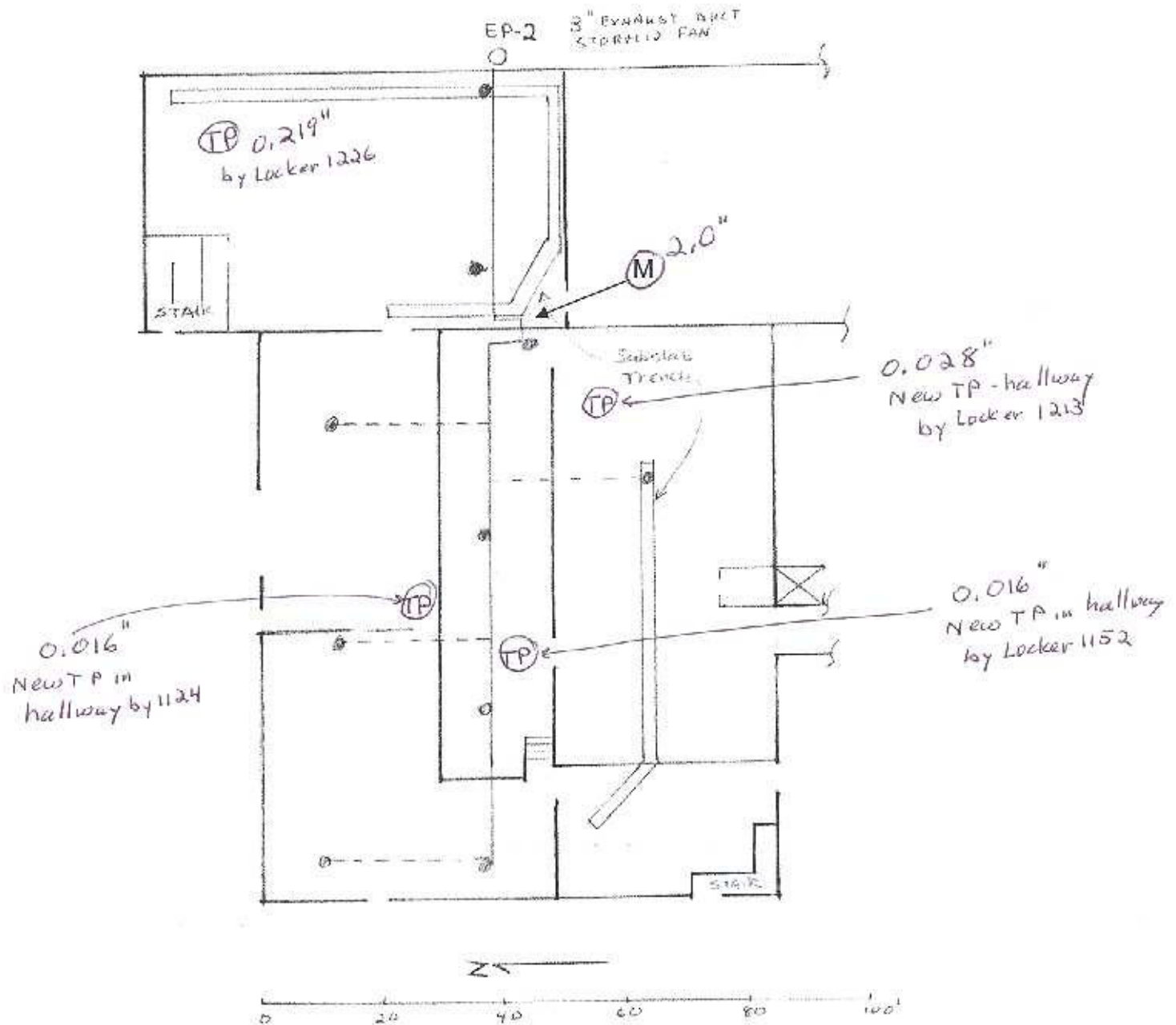
# mitigation tech

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/TAX 585-637-7430



Pressure Field Extension (TP) and Manometer (M) Vacuum - wci  
System 2, Buildings 3 and 4

5/21/09

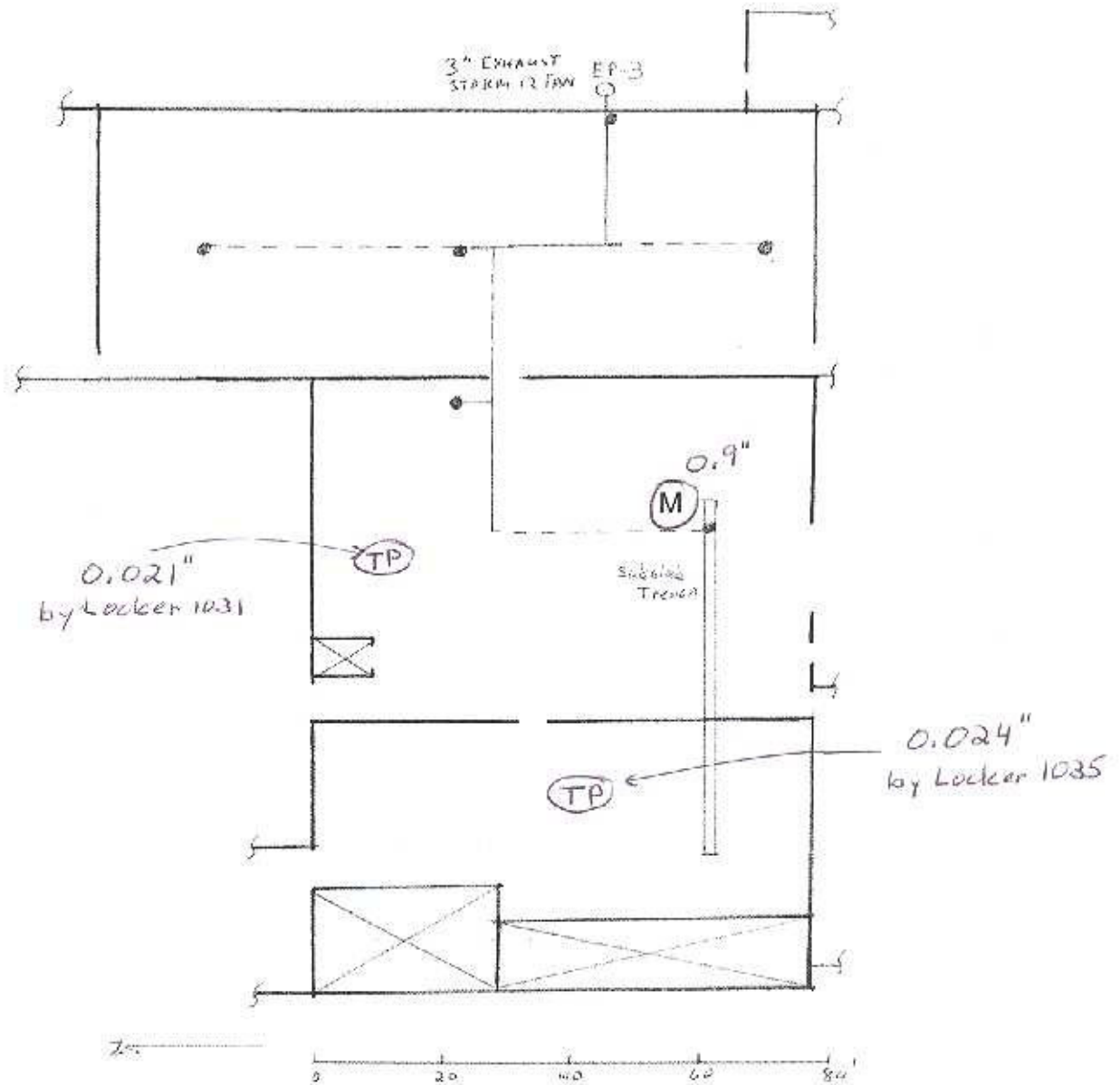


KEY

- Suction Point
- Exhaust Duct
- 3" Duct
- 2" Duct
- M Manometer

mitigation tech

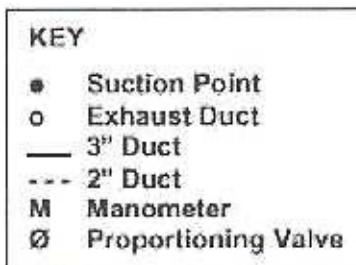
55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-7430



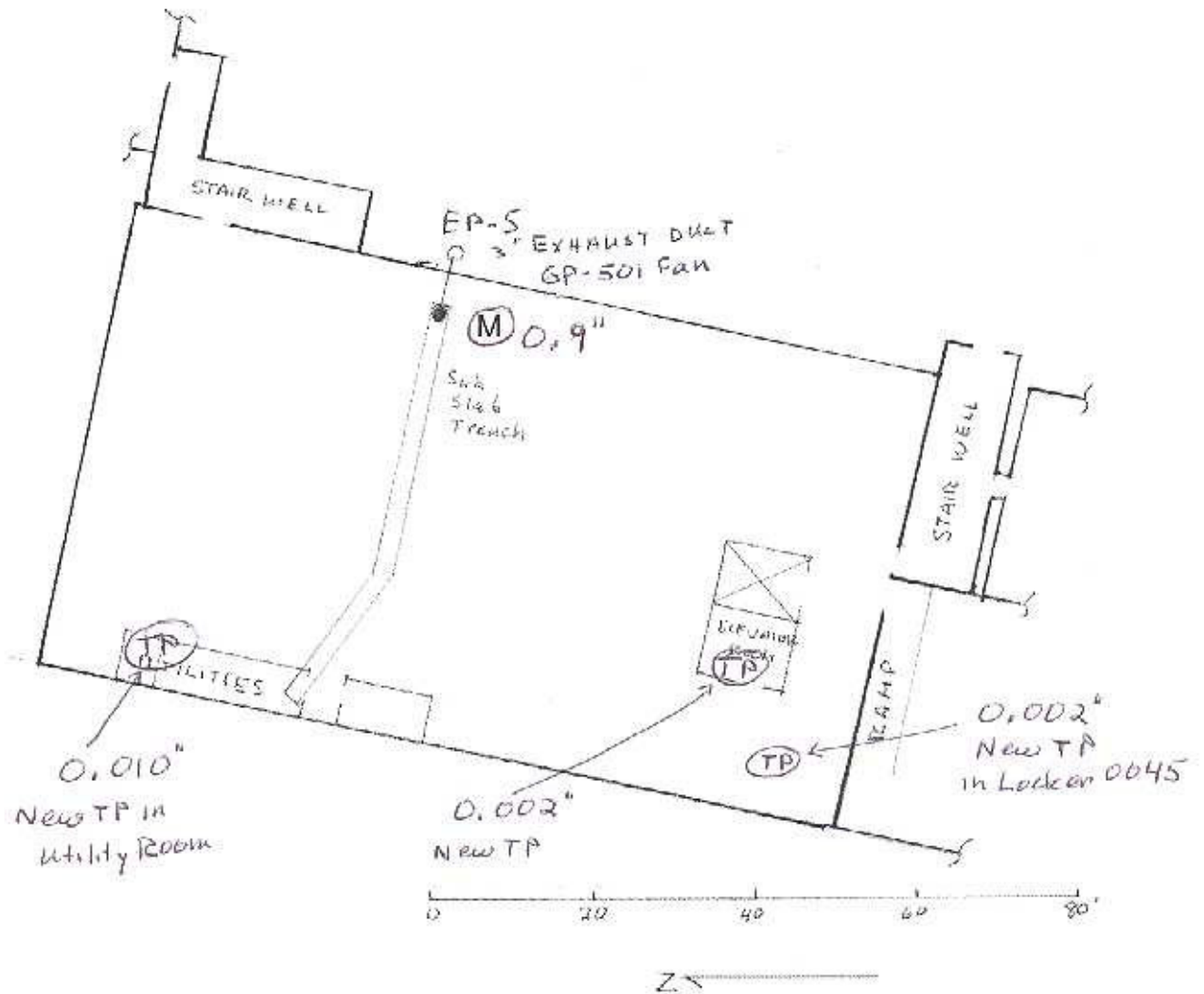
KEY	
●	Suction Point
○	Exhaust Duct
—	3" Duct
---	2" Duct
M	Manometer

mitigation tech

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-7430



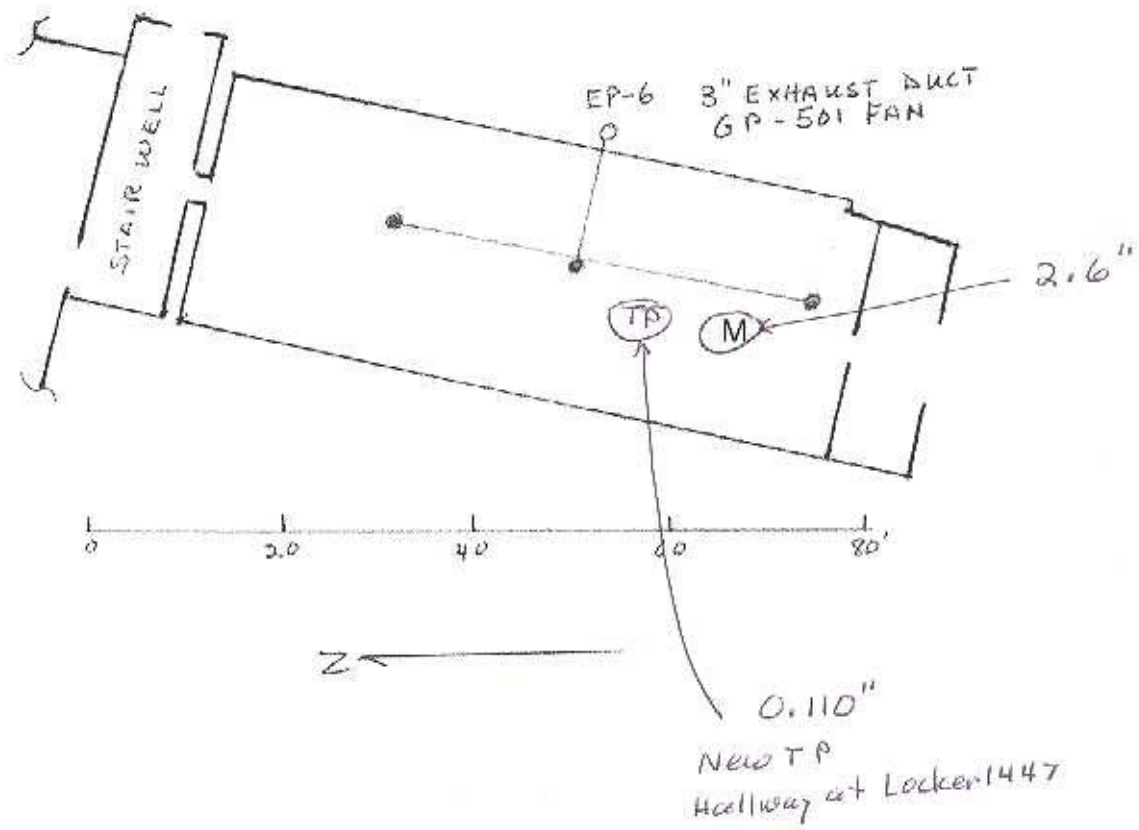
55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-7430



KEY	
●	Suction Point
○	Exhaust Duct
—	3" Duct
---	2" Duct
M	Manometer

mitigation tech

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KEY	
●	Suction Point
○	Exhaust Duct
—	3" Duct
---	2" Duct
M	Manometer

mitigation tech

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-743

## **EXHIBIT 5**

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# mitigation tech *vapor intrusion specialists*

July 29, 2009

Mr. Bruce Munson  
Environmental Management, Ltd.  
41 Franck Rd  
Stony Point, NY 10980-3012  
*Via email attachment: bruce@emlweb.com; dwanamaker@emlweb.com*

**Re: SSD Routine Maintenance, May 21, 2009  
Storage Deluxe (Former Kings Electronics Site)  
40 Marbledale Rd., Tuckahoe, NY 10707**

Dear Mr. Munson:

On May 21, 2009 we visited this location to carry out the required Routine Maintenance of the installed SSD systems. In addition to you, Robert Zimmer, PE, Geovation Engineering participated in conducting a thorough inspection and performance evaluation of the installed SSD systems in order to certify system effectiveness. Our report follows.

Since the post mitigation confirmation testing (pressure field extension vacuum) was conducted on the completed systems at the end of 2007, three system fans have required repair (System 3) or replacement (Systems 1 and 5). No other repairs were necessary.

It was noted that the facility is now in full operation, and consequently access to many system components (e.g., vertical pipe drops and suction points within rented storage lockers) was limited. At some locations, where the original test points could not be accessed, new ones were installed.

Inspection and Performance Evaluation - We performed the following procedures and recorded the following observations:

1. Conduct a visual inspection of the complete SSD system (e.g., vent fans, piping, vacuum gauges, labeling, etc.); **Observation : Acceptable**
2. Inspect all components for condition and proper operation; **Observation : Acceptable.**
3. Identify (and repair) any leaks in accordance with Sections 4.3.1(a) of the NYS DOH Guidance; **Observation: crack in floor of loading dock for Building 6 sealed with polyurethane caulk. No other leaks noted.**
4. Inspect the discharge points to verify that no air intakes have been located nearby; **Observation: No intakes.**
5. Interview the primary occupant of the premises seeking comments regarding the operation of the SSD system; **Corporate Facilities Director had no concerns regarding the systems.**
6. Inspect all vertical pipe drops to suction cavities to ensure that metal protective coverings have been installed; **Observation : Acceptable;**



7. Conduct pressure field extension testing (to ensure that the system is maintaining a vacuum beneath the entire slab).

Bldg.	Location	Differential wci	Fan System
1	Sales demo	.007	1
2	1035	.024	3
2	1031	.021	3
3	1213	.028	2
3	1152	.016	2
3	1124	.016	2
4	1226	.219	2
5	1285	.005	4
5	1292	.023	4
6	1302	.053	4
7	0045	.002	5
7	Elevator Rm	.002	5
7	Utility Rm	.010	5
9	1447	.110	6

8. No additional repairs or adjustments made.

I certify that the installed systems are effective.

If you have any questions, please contact me.

**NICHOLAS E MOUGANIS**

Nicholas E. Mouganis    EPA listing # 15415-I; NEHA ID# 100722  
President

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**55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 \* OFFICE/FAX 585-637-7430**

# ATTACHMENT C

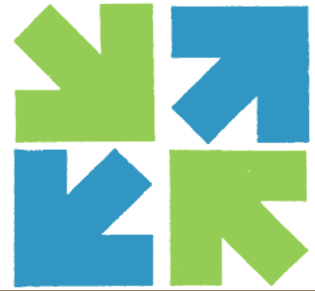
To Post-Remedial Annual Report

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**ENVIRONMENTAL MANAGEMENT, LTD.**

*On the Lake @ 41 Franck Road, Stony Point, New York 10980*

*Phone (845) 429-1141 • Fax (845) 429-1166*



Internet: [www.emlweb.com](http://www.emlweb.com)

Email: [info@emlweb.com](mailto:info@emlweb.com)

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October 9, 2009

Nicole Bonsteel, P.E.

New York State Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, 12<sup>th</sup> Floor

Albany, New York 12233

**Re: Annual Certification for SSD System installed at:  
Storage Deluxe, 40 Marbledale Road, Tuckahoe, Westchester County  
Weissman Holdings, Inc. (formerly Kings Electronics Co., Inc.)  
NYSDEC # V 00237-3**

Dear Ms. Bonsteel:

In accordance with the approved Operation, Maintenance & Monitoring (OM&M)/ Site Management Plan (for the installed Sub-Slab Depressurization (SSD) System) Environmental Management, Ltd (EML), on behalf of Weissman Holdings, Inc. must submit this annual certification.

By this certification, EML affirms that the SSD system at the site remains in place, is performing properly, and remains effective.

Please call me if you have any questions or comments.

Very truly yours,

**Environmental Management, Ltd.**

[Donald J. Wanamaker](#)

Donald J. Wanamaker

President

cc: Carl Obermeyer, NYS DOH