Polychlorinated Biphenyl Abatement Plan Closure Report

For the Site:

Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA.

Prepared for:

Town of Shrewsbury, MA

c/o Universal Environmental Consultants
12 Brewster Road
Framingham, MA. 01702

Prepared by:

Lord Associates, Inc.
1506 Providence Highway, Suite 30
Norwood, MA 02062

Project No. 1880

July 11, 2013

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Appendix A. Copy of EPA August Approval Letter
Appendix B. Copies of Dust Monitor Results
Appendix C. Copy of Original Laboratory Reports
Appendix D. Copy of Disposal Facility Receipt, Manifest forms

1.0 Introduction:

1.1 Purpose & Background:

In accordance with the United States Environmental Protection Agency (EPA) Conditional Approval letter dated January 16, 2013, this Polychlorinated Biphenyl (PCB) Abatement Plan Closure Report is being submitted to EPA to provide documentation regarding abatement activities authorized for the former Sherwood Middle School in Shrewsbury, Massachusetts (the "Site").

In accordance with 40 CFR 761.61(a)(3), 761(c), and 761.79(h), of the Toxic Substances Control Act (TSCA), Lord Associates, Inc. (LAI) submitted notification to EPA via a PCB Abatement Plan dated July 18, 2012, and as revised in subsequent plans and correspondence dated September 25, 2012, December 6, 2012, December 19, 2012, December 24, 2012, January 2, 2013, and January 11, 2013. The need for the Abatement Plan was initially triggered by the identification of PCBs in exterior caulking and window glazing at concentrations greater than 50 parts per million (ppm) in preparation of a planned building demolition of the school. Subsequent testing of "uninvent" heating systems also resulted in the identification of PCBs in the electric motor capacitors at concentrations greater than 50 parts ppm.

The abatement work took place between March 10, 2013 and April 3, 2013. Removal of PCB waste from the Site to the disposal facility was completed on April 10, 2013. This Closure Report includes: a project narrative of activities, photo-documentation, characterization and confirmation sampling analytical results, copies of the accompanying analytical chain of custody forms, field and laboratory quality control/quality assurance checks, an estimate of the quantity of PCB waste disposed of, copies of manifests or bills of lading, and copies of certificates of disposal or similar certifications issued by the disposer.

1.2 Contact Information:

The following information pertinent to the persons assuming responsibility for conducting the Abatement Plan (i.e., the Potentially Responsible Party, PRP) is provided as follows:

PRP Contact Information:

Name:	Shrewsbury School District, c/o Robert Cox
Address:	100 Maple Avenue, Shrewsbury, MA. 01545
Relationship:	Director of Public Facilities

Environmental Consultants/Licensed Site Professional Information:

Name:	Ralph J. Tella, Lord Associates, Inc.
Address:	1506 Providence Highway, Suite 30, Norwood, MA.
Telephone:	(781) 255-5554 x1004

2.0 Abatement Activities:

2.1 Building Description

The Sherwood School is a two-story brick structure of approximately 88,000 square feet. Built in 1964, it has always been used as a school. Ten used "portable classrooms" were added in 1995 to the original building. The building featured 167 window units and three expansion joints that were determined to contain PCBs in their caulking and glazing that contained PCBs at concentrations greater than 50 ppm.

The School utilized "Univent" heating systems manufactured by the Herman Nelson Company in each classroom. These systems utilized electric motors that had integral capacitors containing PCBs at concentrations greater than 50 ppm. There were 47 such systems. The caulking around the exterior grills of the systems also contained PCBs, but at concentrations less than 50 ppm.

A small grass-covered strip of land is located in the front of the building, west, north and east sides. Behind the school to the south, the area surrounding the building is paved (see Figure 2). Testing of soil samples collected from the areas underneath the windows did not result in a detection of PCBs.

2.2 Abatement Activities

The objectives of the Abatement Plan were to properly remove all materials identified as PCB containing bulk product material for off-site disposal prior to building demolition. This includes all of the exterior windows, expansion joint caulking, and window sill/lintel caulking. It also included all "uninvent" electrical capacitors.

Abatement activities were commenced the week of March 10, 2013. The abatement contractor, Southern Middlesex Industries, Inc. (SMI) of Norwood, MA., performed all asbestos and PCB abatement work. Universal Environmental Consultants (UEC) performed the requisite clearance air sampling for asbestos prior to PCB abatement activities. UEC also provided total dust monitoring during the abatement work. EMSL, Inc. provided PCB analytical services.

The windows were removed in their entirety (i.e., trim, glazing and windows were not separated). Associated window system components, concrete sill, mosaic tile and decorative stone were also removed. To facilitate the window and caulk removal process, eight inches of surrounding masonry (brick and mortar) from each window and expansion joint opening were also be removed for disposal with the window system.

SMI completed the removal of all windows, doors, and expansion joints including adjacent masonry by April 3, 2013. All waste was wrapped in plastic sheeting and placed in a covered roll-off container placed within the fenced work area. The roll-off was labeled with the correct PCB label.

Removal of all Uninvent capacitors was completed by the end of April 2013. The capacitors were removed, placed in a drum and manifested to the Clean Harbors Environmental Services facility in Cincinnati Ohio. A copy of the manifest is provided in Appendix D.

During the abatement activities, there were a few instances where the average total dust criteria established for the project, 150 ug/M^3, as recorded by UEC using a Thermo Data Ram Total Dust Analyzer placed within the active work area was exceeded. Following the elevated measurement, water misting or wet sweeping was employed to control the dust and the condition was improved. It was noted that during the building demolition, a water hose was used to mist the area. Copies of the total dust monitoring results are provided in Appendix B.

UEC inspected the work area and determined that no visible residue of PCB caulk remained, and that eight inches of masonry was removed from areas adjacent to caulk. UEC collected a total of 54 post abatement verification samples of adjacent masonry according to the approved plan (copy of EPA Approval letter is provided in Appendix A). Forty-three of the samples were from the expansion joint areas.

Masonry samples were collected using a hammer-drill technique in accordance with EPA Standard Operating Procedure for Porous Surfaces, Revision 4, May 2011 to maximum depth of 0.5 inches. All samples were collected into either amber glass vials or zip-lock bags and placed in a cooler for shipment to the lab under chain-of-custody protocol. Sampling tools were de-contaminated between sample locations with a methanol rinse.

The results of the post abatement sampling indicated that *no* PCBs were detected in any masonry sample collected from areas adjacent to either the window systems or expansion joints.

Confirmatory wipe sampling from the interior of the Uninvent systems detected PCBs in three of the fifteen samples collected. Each of these detections *was below* the remedial goal of 10 ug/100 cm^2. The results of the lab analyses are summarized on the following Table 1.

Table 1
Summary of Post Abatement Wipe Samples
(ug/100cm^2)

Sample ID	Result
Location 1	<0.5
Location 2	<0.5
Location 3	0.17
Location 4	0.06
Location 5	<0.5
Location 6	<0.5
Location 7	<0.5
Location 8	0.07
Location 9	<0.5
Location 10	<0.5
Location 11	<0.5
Location 12	<0.5
Location 13	<0.5

Location 14	<0.5
Location 15	<0.5
Filed Blank	<4.5

Figures showing all sampling locations are provided with each respective matching laboratory report in the attached appendices. Copies of all original laboratory reports are provided in Appendix C.

2.3 Decontamination

All plastic sheeting used for containment and personal protective equipment (i.e., gloves, Tyvex suits, etc.) was placed in the roll-off container used for the disposal of Bulk Product Waste. The 40 CFR 761 Subpart S double wash-rinse technique was used to decontaminate non-porous surfaces such as movable equipment, and tools. As a hand-held spray bottle and rags were used to decon equipment, no free water was generated.

3.0 Quality Control and Assurance Plan:

All post-verification samples collected for laboratory analyses were analyzed by the subcontracted laboratory, EMSL, Inc. which is certified by the National Environmental Laboratory Accreditation Program (NELAP) and followed EPA Method 3540C for Soxhlet extractions and Method 8082 for gas chromatography analysis. Intra-laboratory QA/QC data including matrix spike recovery, field and method blanks and duplicates were reported. Any exceptions were discussed in a case report narrative. Copies of all original laboratory reports are provided as Appendix C.

Precision was measured by the use of intra lab duplicates, accuracy by surrogate and matrix spike recoveries. The results of all intra lab duplicates showed good precision within 50% relative percent difference. All surrogate recoveries were within method limits. All field and method blanks were “non-detectable”.

4.0 Remedial Waste Management:

All PCB Bulk Product and Remediation Waste material removed for off-site disposal was managed in accordance with Section 3.2.3 of this plan until transported to the approved disposal facility. While on-site, the waste containers were labeled with PCB warning labels as specified at 40 CFR 761, and transported under a Uniform Hazardous Waste Manifest by a MADEP licensed transporter, and marked “Polychlorinated biphenyl, solid mixture UN 3432”, in accordance with DOT 49 CFR Parts 171 and 172. Univent capacitors were shipped as “Non-DOT Regulated PCBs” (less than 1 pound PCB, TSCA exempt small capacitors/ballast).

- All PCB Bulk Product and Remediation Waste (e.g., windows and caulk) were disposed of at Minerva Enterprises, Waynesburg, Ohio.

- All solid decontamination wastes were disposed of in the roll-off containers used for the disposal of Bulk Product Waste.
- Univent capacitors were transported to the Clean Harbors Environmental Services facility in Cincinnati Ohio. A total of approximately 20 kilograms were shipped.

Table 2
Summary of Waste Shipments to Minerva, OH

Bulk Product Waste Summary Total Sheet Transported to Minerva Enterprises, OH	
Date	Volume
4/4/2013	6360
4/4/2013	5450
4/5/2013	5500
4/5/2013	8200
4/5/2013	8010
4/5/2013	8636
4/8/2013	7200
4/9/2013	7200
4/9/2013	5760
4/9/2013	7260
4/10/2013	8500
total:	78,076 Kilograms

Copies of the manifest forms and certificate of disposal are provided in Appendix D.

APPENDIX A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JAN 16 2013

Shrewsbury School District
c/o Mr. Robert Cox, Superintendent of Public Buildings
100 Maple Avenue
Shrewsbury, Massachusetts 01545

Re: PCB Cleanup and Disposal Approval under 40 CFR §§ 761.61(a) and (c) and § 761.79(h)
Sherwood Middle School
Shrewsbury, Massachusetts

Dear Mr. Cox:

This is in response to the Town of Shrewsbury (the Town) Notification[1] for approval of the proposed plan to address PCB contamination at the Sherwood Middle School (the Site) located at 30 Sherwood Street, Shrewsbury, Massachusetts. The Site contains caulk and glazing that exceed the allowable PCB levels under 40 CFR § 761.20(a) and § 761.62.

The Town has requested an approval which includes the following:

- Remove PCB caulk, entire window system (including metal frame, glass, decorative stone panel, decorative mosaic panels, concrete sill, and glazing), and 8 inches of porous surface (i.e., brick) adjacent to the PCB caulk, and dispose as a *PCB bulk product waste* in a TSCA-approved disposal facility or RCRA hazardous waste landfill;

- Remove and dispose of *PCB remediation waste* (i.e., univents) in accordance with § 761.61(a)(5)(ii), if PCB concentrations are $\geq 10\ \mu g/100\ cm^2$; and,

- Conduct verification sampling for *porous surfaces* (i.e., brick) to confirm that the PCB cleanup standard of ≤ 1 ppm has been met.

[1] The notification was prepared by Lord Associates, Inc on behalf of the Town of Shrewsbury to satisfy the notification requirement under 40 CFR § 761.61(a)(3) and § 761.79(h). Information was submitted dated July 18, 2012 (Self-Implementing On-Site Cleanup and Disposal Plan (SIDP)), September 25, 2012 (Letter Response to EPA comments); December 6, 2012 (email concerning univent caulk); December 19, 2012 (letter concerning univents disposal); December 24, 2012 (revised letter concerning univents disposal); January 2, 2013 (email with univent total); and January 11, 2013 (email letter clarifying univent sampling plan). These submittals shall be referred to as the "Notification".

The Town has determined that certain caulks, which have PCB concentrations at < 50 ppm, meet the criteria for an *Excluded PCB Product* under § 761.3. Under the PCB regulations, *Excluded PCB Products* are authorized for use and thus there is no requirement for removal of the caulk or for decontamination of surfaces that are in contact with the caulk.

As discussed with EPA, the Town is aware of the October 24, 2012 PCB Bulk Product Waste Reinterpretation. For this project, the Town has made the determination that the *porous surfaces* will be classified as a *PCB bulk product waste,* with disposal in a TSCA-approved disposal facility or RCRA hazardous waste landfill.

With the exception of the proposed verification sampling frequency for decontaminated *porous surfaces*, the Notification meets the requirements and standards established under §§ 761.61(a), 761.62, and 761.79(h) for cleanup and disposal of *PCB remediation waste* and *PCB bulk product waste*.

With respect to the verification sampling frequency, based on the results of the PCB sampling to-date and the proposed cleanup and disposal approach, EPA has determined that the sampling plan and verification sampling frequency are adequate to confirm that the PCB cleanup standard has been met.

This Approval does not address disposal of any univent capacitors containing PCBs. Attachment 1, Condition 16 requires that the Town submit the sample results and a plan for disposal, if required.

The Town may proceed with its project in accordance with 40 CFR §§ 761.61(a) and (c); § 761.79(h); § 761.62; its Notification; and, this Approval, subject to the conditions of Attachment 1.

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator (OSRR07-2)
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912
Telephone: (617) 918-1527
Facsimile: (617) 918-0527

This Approval does not release the Town from any applicable requirements of federal, state or local law, including the requirements related to cleanup and disposal of PCBs or other contaminants under the Massachusetts Department of Environmental Protection (MassDEP) regulations.

EPA shall not consider this project complete until it has received all submittals required under this Approval. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

James T. Owens III, Director
Office of Site Remediation & Restoration

cc Ralph Tella, Lord Associates
MassDEP, Central Region
Shrewsbury Board of Health
File

Attachment 1: PCB Approval Conditions

ATTACHMENT 1

PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS
SHREWSBURY SCHOOL DISTRICT, TOWN OF SHREWSBURY
SHERWOOD MIDDLE SCHOOL (the "Site")
30 SHERWOOD STREET
SHREWSBURY, MASSACHUSETTS

GENERAL CONDITIONS

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the *PCB bulk product waste* and the *PCB remediation waste* located at the Site and identified in the Notification.[1]

2. The Town of Shrewsbury (the Town) shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.

3. In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.

4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.

5. The Town must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, the Town shall contact EPA within 24 hours for direction on PCB cleanup and sampling requirements.

6. The Town is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time the Town has or receives information indicating that the Town or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.

1 The notification was prepared by Lord Associates, Inc on behalf of the Town of Shrewsburyto satisfy the notification requirement under 40 CFR § 761.61(a)(3) and § 761.79(h). Information was submitted dated July 18, 2012 (Self-Implementing On-Site Cleanup and Disposal Plan (SIDP)); September 25, 2012 (Letter Response to EPA comments); December 6, 2012 (email concerning univent caulk); December 19, 2012 (letter concerning univents disposal); December 24, 2012 (revised letter concerning univents disposal); January 2, 2013 (email with univent total); and January 11, 2013 (email letter clarifying univent sampling plan). These submittals shall be referred to as the "Notification".

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by the Town are authorized to conduct the activities set forth in the Notification. The Town is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.

8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release the Town from compliance with any applicable requirements of federal, state or local law; or 3) release the Town from liability for, or otherwise resolve any violations of federal, state or local law.

9. Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

NOTIFICATION AND CERTIFICATION CONDITIONS

10. This Approval may be revoked if the EPA does not receive written notification from the Town of its acceptance of the conditions of this Approval within 10 business days of receipt.

11. The Town shall notify EPA in writing of the scheduled date of commencement of on-site activities at least one (1) business day prior to conducting any work under this Approval.

12. The Town shall submit the following information for EPA review and/or approval:

    a. a certification signed by its selected abatement/demolition contractor, stating that the contractor(s) has read and understands the Notification, and agrees to abide by the conditions specified in this Approval;

    b. a contractor work plan with appropriate figures, prepared and submitted by the selected demolition or abatement contractor(s) describing the containment and air monitoring that will be employed during abatement activities. This work plan should also include information on how and where wastes will be stored and disposed of, and on how field equipment will be decontaminated; and,

    c. a certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the extraction and analytical method requirements and quality assurance requirements specified in the Notification and in this Approval.

CLEANUP AND DISPOSAL CONDITIONS

13. To the maximum extent practical, engineering controls, such as barriers, and removal techniques, such as the use of HEPA ventilated tools, shall be utilized during removal processes. In addition, to the maximum extent possible, disposable equipment and materials, including PPE, will be used to reduce the amount of decontamination necessary.

14. PCB-contaminated materials shall be decontaminated and confirmatory sampling and analysis shall be conducted as described below:

    a. All visible residues of PCB-contaminated caulk and window systems and brick (i.e., *PCB bulk product waste*) shall be removed and disposed of as described in the Notification.

    b. The cleanup standard for remaining *porous surfaces* (i.e., brick) shall be less than or equal to (≤) 1 part per million (ppm).

        i) All post-cleanup verification sampling for *porous surfaces* shall be performed on a bulk basis (i.e., mg/kg) and reported on a dry weight analysis. Verification sampling for *porous surfaces* shall be conducted in accordance with the EPA Region 1 *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) Revision 4, May 5, 2011*, at a maximum depth interval of 0.5 inches.

        ii) Verification samples will be collected in accordance with Subpart O along the expansion joints.

        iii) For the window openings, 4 verification samples will be collected per representative window type on each side of the building. A total of 28 samples would be collected from large windows and 12 samples will be collected from the small windows.

        iv) Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction/analytical method(s) is validated according to Subpart Q.

15. The cleanup standard for *non-porous surfaces* (i.e., univents) shall be $\leq 10\ \mu g/100\ cm^2$.

    a. *Non-porous surfaces* shall be cleaned as described in the Notification.

    b. Post-decontamination verification sampling of *non-porous surfaces* shall be performed on a surface area basis by the standard wipe test as specified in 40 CFR § 761.123 (i.e., $\mu g/100\ cm^2$) and in accordance with Subpart P.

c. In the event decontaminated *non-porous surfaces* have PCB concentrations at greater than (>) 10 μg/100 cm^2 PCBs, the Town may conduct additional decontamination to achieve the required ≤ 10 μg/100 cm^2 decontamination standard for use.

d. In the event decontaminated *non-porous surfaces* have PCB concentrations at > 10 μg/100 cm^2 but less than (<) 100 μg/100 cm^2 PCBs, the Town may opt to dispose of the univents in a landfill in accordance with § 761.61(a)(5)(i)(B)(*2*)(*ii*).

e. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction/analytical method(s) is validated according to Subpart Q.

16. The Town shall submit a copy of the analytical results for the univent capacitors within 5 days of receipt of the results. In the event the PCB concentration is greater than or equal to (≥) 50 ppm, the Town shall submit a plan for disposal of the capacitors for EPA review.

17. PCB waste (at any concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with CFR 40 CFR § 761.40; stored in a manner consistent with 40 CFR § 761.65; and, disposed of in accordance with 40 CFR § 761.61 or § 761.62, unless otherwise specified below.

a. Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g)(6).

b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).

c. PCB-contaminated water generated during decontamination shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under § 761.60.

INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

18. The Town shall allow any authorized representative of the Administrator of the EPA to inspect the Site and to inspect records and take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by the Town to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.

19. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).

20. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

21. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA's revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

22. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, including EPA's PCB Spill Cleanup Policy, or other applicable rules and regulations; or, if EPA finds that these activities present an unreasonable risk to public health or the environment.

RECORDKEEPING AND REPORTING CONDITIONS

23. The Town shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and disposal and the analytical sampling shall be established and maintained by the Town in one centralized location, until such time as EPA approves in writing a request for an alternative disposition of such records. All records shall be made available for inspection to authorized representatives of EPA.

24. The Town shall submit a final report as both a hard copy and electronic version, to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this final report shall include: a short narrative of the project activities with photo-documentation; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste disposed of; copies of manifests and bills of lading; and copies of certificates of disposal or similar certifications issued by the disposer.

25. Required submittals shall be mailed to:

    Kimberly N. Tisa, PCB Coordinator
    United States Environmental Protection Agency
    5 Post Office Square, Suite 100 - (OSRR07-2)
    Boston, Massachusetts 02109-3912
    Telephone: (617) 918-1527
    Facsimile: (617) 918-0527

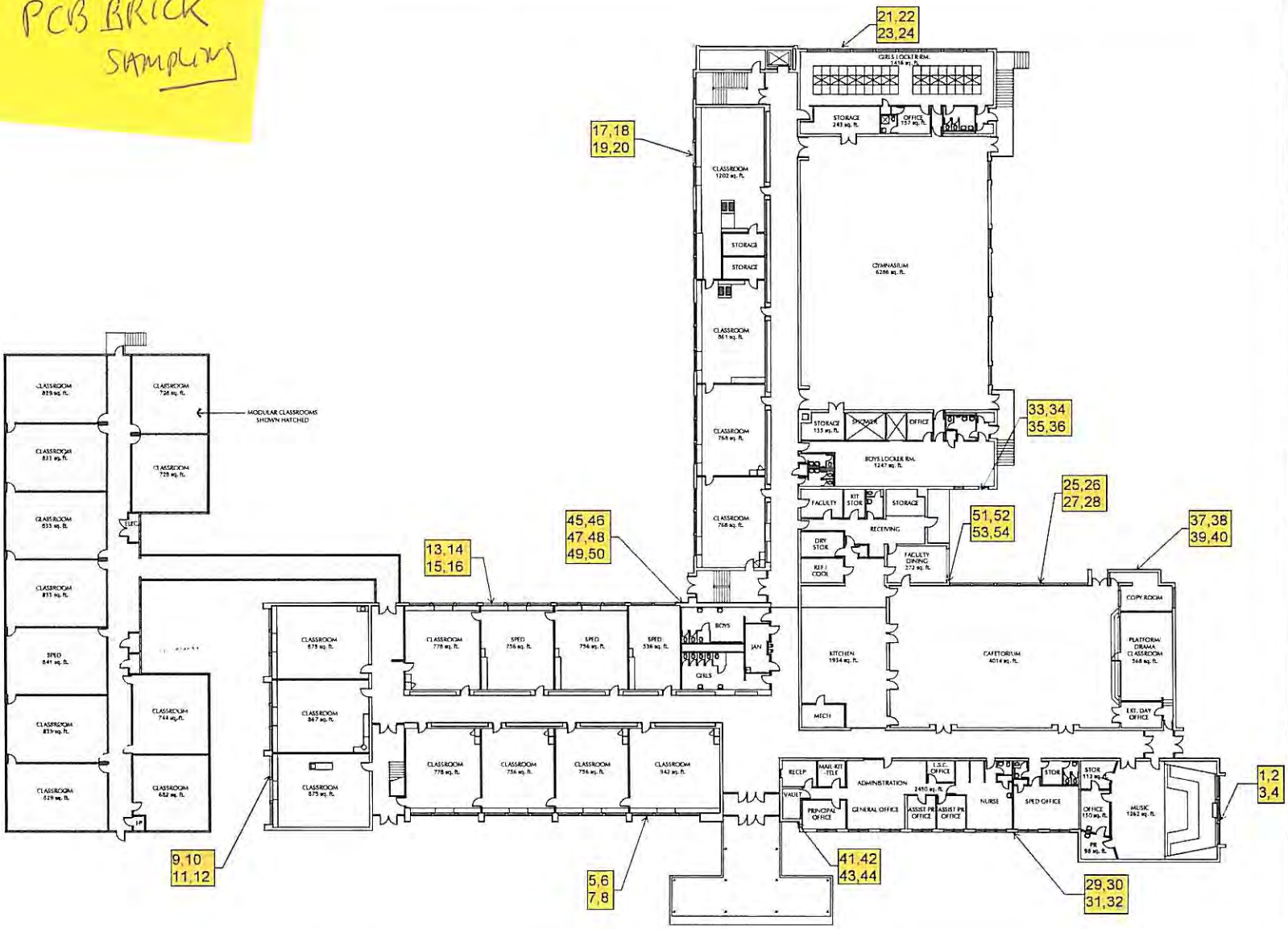
26. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

****

END OF ATTACHMENT 1

APPENDIX B

4-2-13
PCB BRICK
SAMPLING



Existing First Floor Plan
SCALE: 1/16" = 1'-0"

LAMOUREUX+PAGANO ASSOCIATES, ARCHITECTS
14 EAST WORCESTER STREET
WORCESTER, MASSACHUSETTS 01804

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

OWNER

SHREWSBURY SCHOOL DEPARTMENT

Town of Shrewsbury
Massachusetts
01545

PROJECT

SHERWOOD MIDDLE SCHOOL

45 OAK STREET
SHREWSBURY, MASSACHUSETTS

TITLE

Existing First Floor Plan

REVISIONS

No.	DESCRIPTION	DATE

FILE: 0914-***.DWG/PA TYP.PLT
DWN. BY: --
CKD. BY: --
JOB NO: 0914
SCALE: --
DATE: -/-/-

EX
1

4-3
wipe
samples

Existing Ground Floor Plan
SCALE: 1/16" = 1'-0"

LAMOUREUX+PAGANO ASSOCIATES, ARCHITECTS
14 EAST WORCESTER STREET
WORCESTER, MASSACHUSETTS 01604

MEMBER OF
THE AMERICAN INSTITUTE OF ARCHITECTS

OWNER

SHREWSBURY SCHOOL DEPARTMENT

Town of Shrewsbury
Massachusetts
01545

PROJECT

SHERWOOD MIDDLE SCHOOL

45 OAK STREET
SHREWSBURY, MASSACHUSETTS

TITLE

Existing Ground Floor Plan

REVISIONS

No.	DESCRIPTION	DATE

FILE: 0914-***.DWG/LPA TYP.PLT

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CKD. BY: –
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DATE: –/–/–

EX
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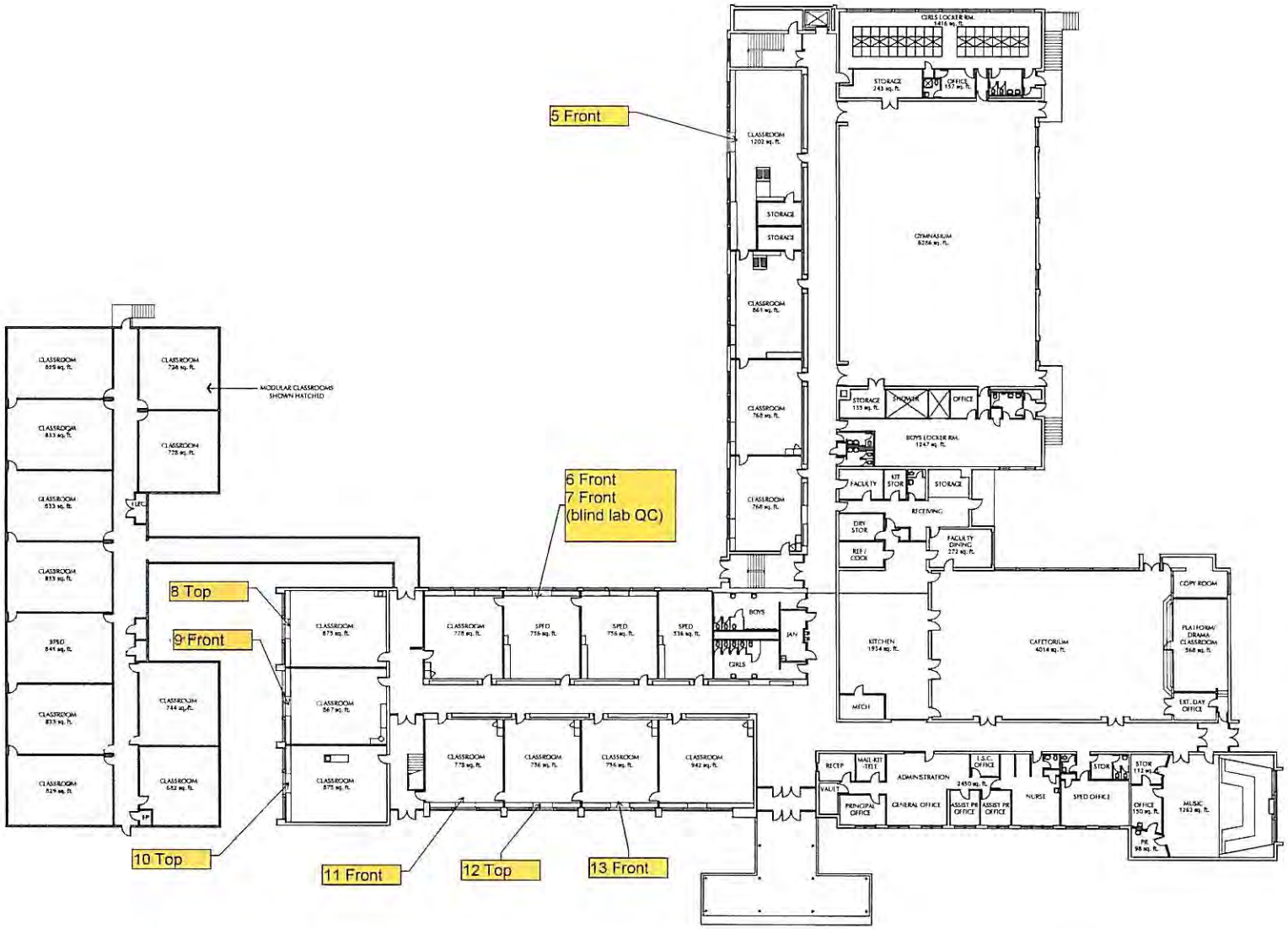

Existing First Floor Plan

SCALE: 1/16" = 1'-0"

LAMOUREUX+PAGANO ASSOCIATES, ARCHITECTS

14 EAST WORCESTER STREET
WORCESTER, MASSACHUSETTS 01604

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SHREWSBURY SCHOOL DEPARTMENT

Town of Shrewsbury
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01545

PROJECT

SHERWOOD MIDDLE SCHOOL

45 OAK STREET
SHREWSBURY, MASSACHUSETTS

TITLE

Existing First Floor Plan

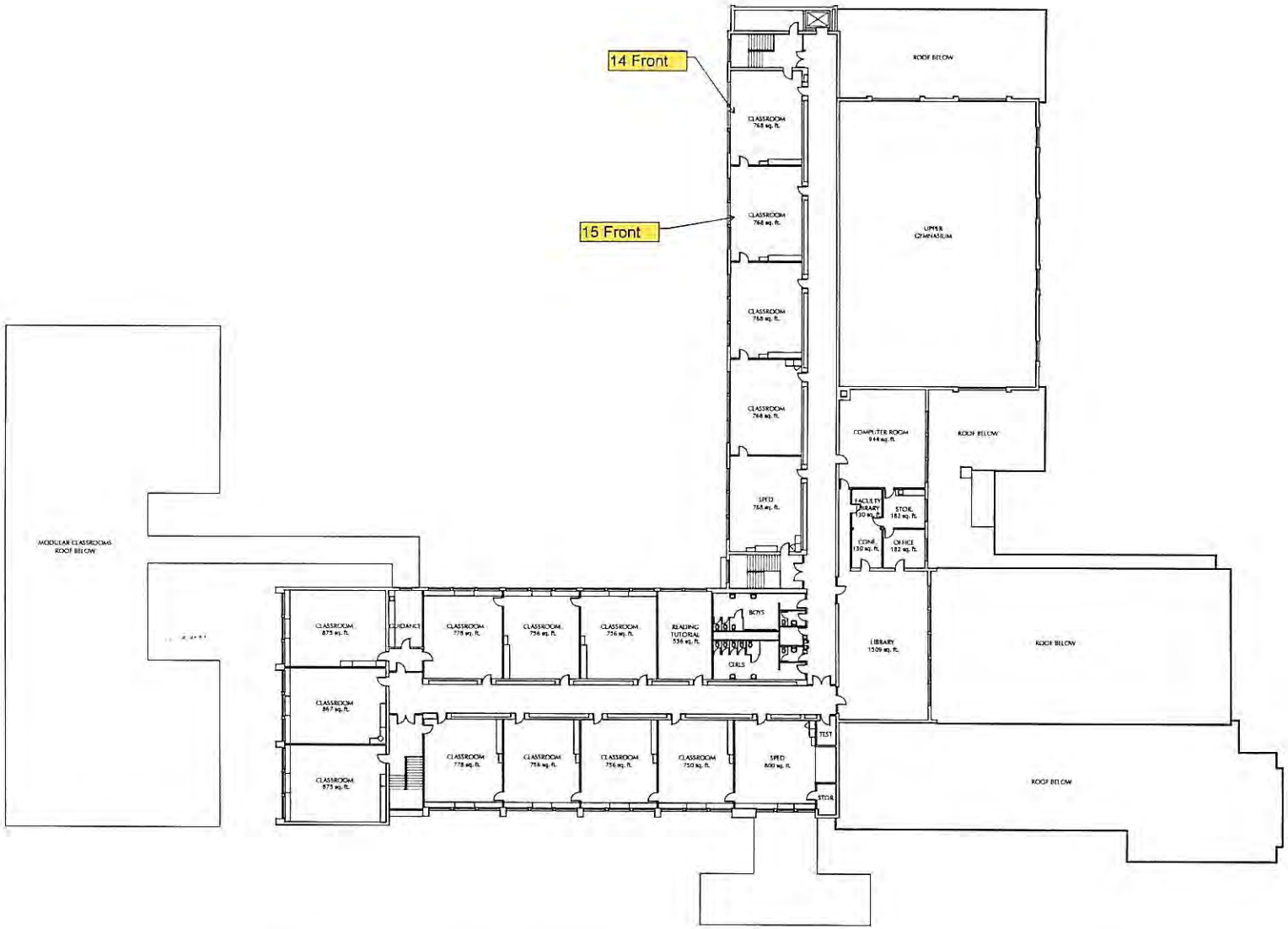
REVISIONS

No.	DESCRIPTION	DATE

FILE: 0914-***.DWG/LPA TYP.PLT

DWN. BY: –
CKD. BY: –
JOB NO: 0914
SCALE: –
DATE: –/–/–

EX
1



Existing Second Floor Plan

SCALE: 1/16" = 1'-0"

LAMOUREUX+PAGANO ASSOCIATES, ARCHITECTS

14 EAST WORCESTER STREET
WORCESTER, MASSACHUSETTS 01604

MEMBER OF
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OWNER

SHREWSBURY SCHOOL DEPARTMENT

Town of Shrewsbury
Massachusetts
01545

PROJECT

SHERWOOD MIDDLE SCHOOL

45 OAK STREET
SHREWSBURY, MASSACHUSETTS

TITLE

Existing Second Floor Plan

REVISIONS

No.	DESCRIPTION	DATE

FILE: 0914-***.DWG/LPA TYP.RST

DWN. BY: –
CKD. BY: –
JOB NO: 0914
SCALE: –
DATE: –/–/–

EX
2

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone: (508) 628-5486
Fax: (508) 628-5488

4/10/2013

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/3/2013. The results are tabulated on the attached data pages for the following client designated project:

Sherwood MS Shrewsbury MA

The reference number for these samples is EMSL Order #011301314. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director

The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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EMSL Order:	011301314
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
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12 Brewster Road
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Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/03/13 9:30 AM
Collected:	4/2/2013

Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 1 Large Window West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0001*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1221	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1232	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1242	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1248	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1254	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1260	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1262	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1268	ND	0.72	mg/Kg	4/5/2013	AB	4/8/2013	EH

Client Sample Description 2 Large Window West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0002*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1221	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1232	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1242	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1248	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1254	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1260	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1262	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1268	ND	0.79	mg/Kg	4/5/2013	AB	4/8/2013	EH

Client Sample Description 3 Large Window West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0003*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1221	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1232	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1242	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1248	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1254	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1260	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1262	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH
3540C/8082A	Aroclor-1268	ND	0.51	mg/Kg	4/5/2013	AB	4/8/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 4 Large Window West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 5 Large Window Northeast — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 6 Large Window Northeast — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Received: 04/03/13 9:30 AM
Collected: 4/2/2013

Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 7 Large Window Northeast — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0007*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.84	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 8 Large Window Northeast — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0008*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.75	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 9 Large Window East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0009*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.67	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Received:	04/03/13 9:30 AM
Collected:	4/2/2013

Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 10 Large Window East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0010*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 11 Large Window East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0011*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 12 Large Window East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0012*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Collected:	4/2/2013

Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 13 Large Window East South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0013*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 14 Large Window East South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0014*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.51	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 15 Large Window East South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0015*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.56	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 16 Large Window East South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0016*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 17 Large Window South East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0017*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.65	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 18 Large Window South East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0018*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.66	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 19 Large Window South East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0019*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.72	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 20 Large Window South East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0020*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.63	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 21 Large Window South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0021*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.77	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 22 Large Window South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0022*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.80	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 23 Large Window South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0023*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.82	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 24 Large Window South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0024*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.50	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 25 Large Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0025*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	1.0	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 26 Large Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0026*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.86	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 27 Large Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0027*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.49	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Analytical Results

Client Sample Description 28 Large Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0028*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.64	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 29 Small Window North West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0029*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.87	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 30 Small Window North West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0030*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.83	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Analytical Results

Client Sample Description 31 Small Window North West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0031*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.60	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 32 Small Window North West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0032*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 33 Small Window South West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0033*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.69	mg/Kg	4/5/2013	AB	4/9/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 34 Small Window South West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0034*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.58	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 35 Small Window South West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0035*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.76	mg/Kg	4/5/2013	AB	4/9/2013	EH

Client Sample Description 36 Small Window South West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0036*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.86	mg/Kg	4/8/2013	AB	4/10/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 37 Small Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0037*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.64	mg/Kg	4/8/2013	AB	4/10/2013	EH

Client Sample Description 38 Small Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0038*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH

Client Sample Description 39 Small Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0039*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.50	mg/Kg	4/8/2013	AB	4/10/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 40 Small Window West South — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0040*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.93	mg/Kg	4/8/2013	AB	4/9/2013	EH

Client Sample Description 41 Expansion Joint Front — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0041*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.84	mg/Kg	4/8/2013	AB	4/9/2013	EH

Client Sample Description 42 Expansion Joint Front — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0042*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.83	mg/Kg	4/8/2013	AB	4/9/2013	EH

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Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 43 Expansion Joint Front ***Collected:*** 4/2/2013 ***Lab ID:*** *0043*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.81	mg/Kg	4/8/2013	AB	4/9/2013	EH

Client Sample Description 44 Expansion Joint Front ***Collected:*** 4/2/2013 ***Lab ID:*** *0044*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.88	mg/Kg	4/8/2013	AB	4/9/2013	EH

Client Sample Description 45 Expansion Joint Rear East ***Collected:*** 4/2/2013 ***Lab ID:*** *0045*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.69	mg/Kg	4/8/2013	AB	4/9/2013	EH

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Analytical Results

Client Sample Description 46 Expansion Joint Rear East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0046*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.63	mg/Kg	4/8/2013	AB	4/9/2013	EH

Client Sample Description 47 Expansion Joint Rear East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0047*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.50	mg/Kg	4/8/2013	AB	4/9/2013	EH

Client Sample Description 48 Expansion Joint Rear East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0048*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.54	mg/Kg	4/8/2013	AB	4/9/2013	EH

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http://www.emsl.com jsmith@emsl.com

EMSL Order:	011301314
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/03/13 9:30 AM
Collected:	4/2/2013

Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 49 Expansion Joint Rear East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0049*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1221	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1232	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1242	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1248	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1254	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1260	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1262	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH
3540C/8082A	Aroclor-1268	ND	0.97	mg/Kg	4/8/2013	AB	4/9/2013	EH

Client Sample Description 50 Expansion Joint Rear East — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0050*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.49	mg/Kg	4/8/2013	AB	4/10/2013	EH

Client Sample Description 51 Expansion Joint Rear West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0051*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.61	mg/Kg	4/8/2013	AB	4/10/2013	EH

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EMSL Order:	011301314
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/03/13 9:30 AM
Collected:	4/2/2013

Project: **Sherwood MS Shrewsbury MA**

Analytical Results

Client Sample Description 52 Expansion Joint Rear West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0052*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.89	mg/Kg	4/8/2013	AB	4/10/2013	EH

Client Sample Description 53 Expansion Joint Rear West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0053*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.60	mg/Kg	4/8/2013	AB	4/10/2013	EH

Client Sample Description 54 Expansion Joint Rear West — ***Collected:*** 4/2/2013 — ***Lab ID:*** *0054*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1221	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1232	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1242	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1248	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1254	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1260	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1262	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH
3540C/8082A	Aroclor-1268	ND	0.78	mg/Kg	4/8/2013	AB	4/10/2013	EH

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EMSL Order:	011301314
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit

011301314

011301314

UEC universal environmental consultants
12 Brewster Road
Framingham, MA 01702
Phone: 508.628.5486
Fax: 508.628.5488

CHAIN OF CUSTODY

BUILDING / SITE NAME: Sherwood MS
TOWN / CITY: Shrewsbury
WORK AREA: exterior
STATE: MA

Analysis Type	Turnaround Time (x) 6-8 Hr	12 Hr	24 Hr	48 Hr	72 hr
TEM / AHERA					
TEM / Level II					
TEM / Dust					
TEM / Bulk					
TEM / Water					
PLM					
Mold					
Other:					

Specific Project Notes

Test for PCBs

1-week turn around

Samples received in plastic bags at 20°C 4/3 -TA

SAMPLE ID	MATERIAL DESCRIPTION	SAMPLE LOCATION	START	STOP	TIME	L/MIN	VOLUME
1	Brick	Large window west					
2							
3							
4		west					
5		Northeast					
6							
7							
8		northeast					
9		East					
10							
11							
12		East					
13		East South					
14							
15							
16		East South					
17		South East					
18							
19							
20	Brick	Large window south east					

SAMPLED BY: Jason Bewette 4-2-13 DATE/TIME:
RECEIVED BY: Travis Allen 4/3/13 DATE/TIME:
RELINQUISHED BY: DATE/TIME:
RECEIVED IN LAB BY: Watkin DATE/TIME:

RECEIVED APR 02 2013 By 15:40

011301314

011301314

UEC universal environmental consultants
12 Brewster Road
Framingham, MA 01702
Phone: 508.628.5486
Fax: 508.628.5488

CHAIN OF CUSTODY

BUILDING / SITE NAME: Sherwood hs
TOWN / CITY: Shrewsbury
WORK AREA: exterior
STATE: MA

Analysis Type	Turnaround Time (x)				
	6-8 Hr	12 Hr	24 Hr	48 Hr	72 hr
TEM / AHERA					
TEM / Level II					
TEM / Dust					
TEM / Bulk					
TEM / Water					
PLM					
Mold					
Other:					

Specific Project Notes

Test for PCBs
1-week turn around

SAMPLE ID	MATERIAL DESCRIPTION	SAMPLE LOCATION	START	STOP	TIME	L/MIN	VOLUME
21	Brick	Large window south					
22							
23							
24		south					
25		west south					
26							
27							
28		Large window west south					
29		small window north west					
30							
31							
32		north west					
33		south west					
34							
35							
36		south west					
37		west south					
38							
39							
40	Brick	small window west south					

SAMPLED BY: Jason Bento 4-2-13 DATE/TIME:
RECEIVED BY: Travis Albert 4/3/13 DATE/TIME:
RELINQUISHED BY: DATE/TIME:
RECEIVED IN LAB BY: DATE/TIME:

RECEIVED
APR 02 2013
SA 15:40
By

011301314

011301314

UEC universal environmental consultants

12 Brewster Road
Framingham, MA 01702
Phone: 508.628.5486
Fax: 508.628.5488

CHAIN OF CUSTODY

BUILDING / SITE NAME: Sherwood MS
TOWN / CITY: Shrewsbury
WORK AREA: Exterior
STATE: MA

Analysis Type	Turnaround Time (x) 6-8 Hr	12 Hr	24 Hr	48 Hr	72 hr
TEM / AHERA					
TEM / Level II					
TEM / Dust					
TEM / Bulk					
TEM / Water					
PLM					
Mold					
Other:					

Specific Project Notes

Test for PCBs

1-week turn around

SAMPLE ID	MATERIAL DESCRIPTION	SAMPLE LOCATION	START	STOP	TIME	L/MIN	VOLUME
41	Brick	expansion Joint Front					
42							
43							
44		Front					
45		Rear east					
46							
47							
48							
49							
50		Rear east					
51		rear west					
52							
53							
54	Brick	expansion Joint rear west					

SAMPLED BY: Jason Bewick 4-2-13 DATE/TIME:
RECEIVED BY: Travis Albert DATE/TIME:
RELINQUISHED BY: DATE/TIME:
RECEIVED IN LAB BY: DATE/TIME:

RECEIVED APR 02 2013 By Sa 15:40

EMSL Analytical Inc.

SOIL PESTICIDE/PCB SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
1314-53 10X CU	04/10/13 01:25	107 D	94 D	107 D	127 D	0
1314-54 10X CU	04/10/13 01:52	110 D	98 D	107 D	127 D	0
1314-50 10X CU	04/10/13 00:06	106 D	96 D	109 D	129 D	0
1314-51 10X CU	04/10/13 00:32	99 D	88 D	108 D	126 D	0
1314-52 10X CU	04/10/13 00:59	103 D	92 D	107 D	127 D	0
1314-49 PCB MS	04/10/13 02:19	102 D	91 D	105 D	127 D	0
1314-49 PCB MSD	04/10/13 02:45	108 D	96 D	107 D	128 D	0
1314-46 10X CU	04/09/13 22:19	106 D	93 D	107 D	125 D	0
1314-47 10X CU	04/09/13 22:45	106 D	94 D	108 D	128 D	0
1314-48 10X CU	04/09/13 23:12	108 D	96 D	106 D	125 D	0
1314-49 8X CU	04/09/13 23:39	108 D	98 D	105 D	125 D	0
MB 1 OP 2883-37	04/09/13 18:47	77	90	84	110	0
LCS 1 OP 2883-37	04/09/13 19:13	85	97	85	113	0
1314-40 10X CU	04/09/13 19:40	115 D	102 D	109 D	128 D	0
1314-41 10X CU	04/09/13 20:06	100 D	87 D	107 D	126 D	0
1314-42 10X CU	04/09/13 20:33	116 D	102 D	110 D	128 D	0
1314-43 10X CU	04/09/13 20:59	106 D	95 D	108 D	128 D	0
1314-44 10X CU	04/09/13 21:26	112 D	98 D	107 D	125 D	0
1314-45 10X CU	04/09/13 21:52	114 D	99 D	108 D	136 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

SOIL PESTICIDE/PCB SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
1314-36 10X CU	04/10/13 00:19	100 D	112 D	106 D	109 D	0
1314-37 10X CU	04/10/13 00:48	90 D	104 D	104 D	107 D	0
1314-23 PCB MS	04/10/13 02:43	90 D	98 D	96 D	97 D	0
1314-23 PCB MSD	04/10/13 03:12	98 D	105 D	96 D	99 D	0
1314-38 10X CU	04/10/13 03:40	95 D	109 D	102 D	107 D	0
1314-39 10X CU	04/10/13 04:09	100 D	112 D	108 D	109 D	0
1314-32 10X CU	04/09/13 22:24	93 D	106 D	104 D	109 D	0
1314-33 10X CU	04/09/13 22:53	94 D	106 D	106 D	107 D	0
1314-34 10X CU	04/09/13 23:22	98 D	112 D	105 D	110 D	0
1314-35 10X CU	04/09/13 23:50	96 D	109 D	105 D	107 D	0
MB 1 OP 2883-36	04/09/13 15:41	91	93	91	89	0
LCS 1 OP 2883-36	04/09/13 16:10	94	91	84	82	0
1314-20 10X CU	04/09/13 16:39	100 D	114 D	104 D	107 D	0
1314-21 10X CU	04/09/13 17:08	97 D	110 D	107 D	110 D	0
1314-22 10X CU	04/09/13 17:36	102 D	115 D	105 D	108 D	0
1314-23 5X CU	04/09/13 18:06	89 D	98 D	93 D	94 D	0
1314-24 10X CU	04/09/13 18:34	99 D	113 D	106 D	107 D	0
1314-25 10X CU	04/09/13 19:03	103 D	118 D	108 D	110 D	0
1314-26 10X CU	04/09/13 19:32	93 D	107 D	104 D	105 D	0
1314-27 10X CU	04/09/13 20:01	97 D	111 D	108 D	111 D	0
1314-28 10X CU	04/09/13 20:29	134 D	93 D	102 D	105 D	0
1314-29 10X CU	04/09/13 20:58	95 D	109 D	109 D	109 D	0
1314-30 10X CU	04/09/13 21:26	89 D	101 D	103 D	105 D	0
1314-31 10X CU	04/09/13 21:55	100 D	113 D	106 D	106 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

SOIL PESTICIDE/PCB SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
MB 1 OP 2883-34	04/08/13 22:09	67 D	82 D	81 D	107 D	0
LCS 1 OP 2883-34	04/08/13 22:35	66	73	82	105	0
1314-1 10X CU	04/08/13 23:02	118 D	101 D	114 D	129 D	0
1314-2 10X CU	04/08/13 23:29	108 D	94 D	109 D	125 D	0
1314-3 10X CU	04/08/13 23:55	114 D	99 D	107 D	123 D	0
1314-6 10X CU	04/09/13 01:15	111 D	100 D	107 D	123 D	0
1314-7 10X CU	04/09/13 01:42	113 D	101 D	111 D	126 D	0
1314-4 8X CU	04/09/13 00:22	100 D	93 D	104 D	120 D	0
1314-5 10X CU	04/09/13 00:48	108 D	94 D	111 D	124 D	0
1314-8 10X CU	04/09/13 02:08	98 D	88 D	105 D	122 D	0
1314-9 10X CU	04/09/13 02:35	111 D	96 D	108 D	126 D	0
1314-10 10X CU	04/09/13 03:01	111 D	101 D	114 D	129 D	0
1314-11 4X CU	04/09/13 04:48	88 D	86 D	99 D	119 D	0
1314-12 10X CU	04/09/13 05:14	110 D	98 D	108 D	126 D	0
1314-13 10X CU	04/09/13 05:41	118 D	101 D	115 D	130 D	0
1314-14 10X CU	04/09/13 06:07	104 D	92 D	107 D	123 D	0
1314-15 10X CU	04/09/13 06:34	107 D	94 D	107 D	123 D	0
1314-16 10X CU	04/09/13 07:00	110 D	98 D	112 D	130 D	0
1314-17 10X CU	04/09/13 07:27	110 D	97 D	111 D	128 D	0
1314-18 10X CU	04/09/13 07:53	103 D	92 D	110 D	128 D	0
1314-19 10X CU	04/09/13 08:20	115 D	101 D	113 D	130 D	0
1347-1 10X CU	04/09/13 08:46	129 D	116 D	108 D	125 D	0
1314-11 PCB MS	04/09/13 09:13	96 D	91 D	98 D	118 D	0
1314-11 PCB MSD	04/09/13 09:39	97 D	96 D	97 D	117 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 2883-34 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	X25499.D	**Sample Matrix:**	Solid/Soil
Instrument ID:	ECD-X	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	4/5/2013
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	4/8/2013 10:09:00 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	N
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOLID/ SOIL PESTICIDE/PCB LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: X25499.D/X25500.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.26	84
2	Aroclor 1260	11096-82-5	63	131	1.50	1.45	97
				Total Out			0 of 2

EMSL Analytical Inc.

SOLID/SOIL PESTICIDE/PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 1314-11 PCB MS 4X

File ID: X25514.D/X25524.D/X25525.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	7.43	7.78	105	6.98	7.50	108	3
2	Aroclor 1260	11096-82-5	43	167	25	0.00	7.43	8.03	108	6.98	7.59	109	1
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 2883-36 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y23677.D	**Sample Matrix:**	Solid/Soil
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	4/8/2013
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	4/9/2013 3:41:46 PM
GC Column 2:	CLPest I (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	N
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050	0.095	
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOLID/ SOIL PESTICIDE/PCB LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: Y23677.D/Y23678.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.37	91
2	Aroclor 1260	11096-82-5	63	131	1.50	1.25	83
				Total Out			0 of 2

EMSL Analytical Inc.

SOLID/SOIL PESTICIDE/PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 1314-23 PCB MS 5X

File ID: Y23682.D/Y23700.D/Y23701.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	4.82	5.24	109	4.76	5.33	112	3
2	Aroclor 1260	11096-82-5	43	167	25	0.00	4.82	4.77	99	4.76	4.78	100	2
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 2883-37 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	X25542.D	**Sample Matrix:**	Solid/Soil
Instrument ID:	ECD-X	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	4/8/2013
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	4/9/2013 6:47:16 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	N
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOLID/ SOIL PESTICIDE/PCB LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: X25542.D/X25543.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.49	100
2	Aroclor 1260	11096-82-5	63	131	1.50	1.57	105
				Total Out			0 of 2

EMSL Analytical Inc.

SOLID/SOIL PESTICIDE/PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 1314-49 PCB MS 8X

File ID: X25553.D/X25559.D/X25560.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	3.63	4.14	114	3.61	4.25	118	3
2	Aroclor 1260	11096-82-5	43	167	25	0.00	3.63	4.12	113	3.61	4.22	117	3
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical, Inc.
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Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone: (508) 628-5486
Fax: (508) 628-5488

4/11/2013

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/4/2013. The results are tabulated on the attached data pages for the following client designated project:

Sherwood MS, Shrewsbury, Ma

The reference number for these samples is EMSL Order #011301334. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director

The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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http://www.emsl.com jsmith@emsl.com

EMSL Order:	011301334
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/04/13 9:20 AM
Collected:	4/3/2013

Project: **Sherwood MS, Shrewsbury, Ma**

Analytical Results

Client Sample Description 1 ***Collected:*** 4/3/2013 ***Lab ID:*** *0001*
Location 1

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 2 ***Collected:*** 4/3/2013 ***Lab ID:*** *0002*
Location 2

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 3 ***Collected:*** 4/3/2013 ***Lab ID:*** *0003*
Location 3

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	0.076	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	0.096	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

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EMSL Order:	011301334
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/04/13 9:20 AM
Collected:	4/3/2013

Project: **Sherwood MS, Shrewsbury, Ma**

Analytical Results

Client Sample Description 4 Location 4 ***Collected:*** 4/3/2013 ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	0.060	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 5 Location 5 ***Collected:*** 4/3/2013 ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 6 Location 6 ***Collected:*** 4/3/2013 ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

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EMSL Order:	011301334
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/04/13 9:20 AM
Collected:	4/3/2013

Project: **Sherwood MS, Shrewsbury, Ma**

Analytical Results

Client Sample Description 7 ***Collected:*** 4/3/2013 ***Lab ID:*** *0007*
Location 7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 8 ***Collected:*** 4/3/2013 ***Lab ID:*** *0008*
Location 8

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	0.070	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 9 ***Collected:*** 4/3/2013 ***Lab ID:*** *0009*
Location 9

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.emsl.com jsmith@emsl.com

EMSL Order:	011301334
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/04/13 9:20 AM
Collected:	4/3/2013

Project: **Sherwood MS, Shrewsbury, Ma**

Analytical Results

Client Sample Description 10 ***Collected:*** 4/3/2013 ***Lab ID:*** *0010*
Location 10

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 11 ***Collected:*** 4/3/2013 ***Lab ID:*** *0011*
Location 11

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 12 ***Collected:*** 4/3/2013 ***Lab ID:*** *0012*
Location 12

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

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EMSL Order:	011301334
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/04/13 9:20 AM
Collected:	4/3/2013

Project: **Sherwood MS, Shrewsbury, Ma**

Analytical Results

Client Sample Description 13 ***Collected:*** 4/3/2013 ***Lab ID:*** *0013*
Location 13

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 14 ***Collected:*** 4/3/2013 ***Lab ID:*** *0014*
Location 14

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/10/2013	EH

Client Sample Description 15 ***Collected:*** 4/3/2013 ***Lab ID:*** *0015*
Location 15

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1221	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1232	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1242	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1248	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1254	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1260	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1262	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1268	ND	0.054	µg/100 cm²	4/9/2013	CF	4/11/2013	EH

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EMSL Order:	011301334
CustomerID:	UEC63
CustomerPO:	
ProjectID:	

Attn: **Ammar Dieb**
Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702

Phone:	(508) 628-5486
Fax:	(508) 628-5488
Received:	04/04/13 9:20 AM
Collected:	4/3/2013

Project: **Sherwood MS, Shrewsbury, Ma**

Analytical Results

Client Sample Description 16 Field Blank ***Collected:*** 4/3/2013 ***Lab ID:*** *0016*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082	Aroclor-1016	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1221	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1232	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1242	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1248	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1254	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1260	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1262	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH
3540C/8082	Aroclor-1268	ND	0.50	µg/wipe	4/9/2013	CF	4/11/2013	EH

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit

EMSL Analytical Inc.

WIPE PESTICIDE/PCB SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
1334-10 CU	04/10/13 22:13	85	93	87	105	0
1334-11 CU	04/10/13 22:39	83	97	85	104	0
1334-12 CU	04/10/13 23:06	87	95	89	106	0
1334-13 CU	04/10/13 23:32	84	92	87	104	0
1334-14 CU	04/10/13 23:59	85	94	88	106	0
MB 1 OP 2883-42	04/10/13 16:54	86	94	87	110	0
LCS 1 OP 2883-42	04/10/13 17:20	91	99	90	114	0
LCS 2 OP 2883-42	04/10/13 17:47	87	98	87	111	0
1334-1 CU	04/10/13 18:13	90	100	92	111	0
1334-2 CU	04/10/13 18:41	83	95	84	103	0
1334-3 CU	04/10/13 19:07	94	104	89	108	0
1334-4 CU	04/10/13 19:34	90	99	91	110	0
1334-5 CU	04/10/13 20:00	85	97	85	104	0
1334-6 CU	04/10/13 20:27	85	93	90	108	0
1334-7 CU	04/10/13 20:53	92	101	91	109	0
1334-8 CU	04/10/13 21:20	91	101	89	107	0
1334-9 CU	04/10/13 21:46	89	98	89	107	0
1334-15 CU	04/11/13 00:25	84	92	88	107	0
1334-16 CU	04/11/13 00:52	82	94	87	109	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 2883-42 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	X25581.D	**Sample Matrix:**	Wipe
Instrument ID:	ECD-X	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	4/9/2013
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	4/10/2013 4:54:29 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample Area:**	1 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	N
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (ug/wipe)	CONC. (ug/wipe)	Q
12674-11-2	Aroclor 1016	0.50		U
11104-28-2	Aroclor 1221	0.50		U
11141-16-5	Aroclor 1232	0.50		U
53469-21-9	Aroclor 1242	0.50		U
12672-29-6	Aroclor 1248	0.50		U
11097-69-1	Aroclor 1254	0.50		U
11096-82-5	Aroclor 1260	0.50		U
37324-23-5	Aroclor 1262	0.50		U
11100-14-4	Aroclor 1268	0.50		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

PCB's by 3540c/8082a

Laboratory Control Spike/ Laboratory Control Spike Duplicate Recovery Form

	Matrix	Wipe	**Analytical Sequence #**	X130410
Spike Added	**ug/Wipe**	15.000	**Analytical Batch #**	Batch OP 288342
			Analytical Batch Extraction Date	04/09/13

Data File:	LCS 1 OP 2883-42 CU	LCS 2 OP 2883-32 CU
Data File:	X25582.D	X25583.D
Analysis Time/Date	4/10/13 5:20 PM	4/10/13 5:47 PM

Compound	LCS 1 ug/Wipe	LCS 1 RECOVERY		LCS 2 ug/Wipe	LCS 2 RECOVERY	Recovery Limits		RPD		RPD Limits
Aroclor 1016	14.3	95		14.4	96	50 - 124		1		20
Aroclor 1260	15.9	106		15.5	103	65 - 112		3		20

D=DILUTED OUT
NR= NOT RECOVERED

011301334

011301334

UEC universal environmental consultants

12 Brewster Road
Framingham, MA 01702
Phone: 508.628.5486
Fax: 508.628.5488

CHAIN OF CUSTODY

BUILDING / SITE NAME: Sherwood MS
TOWN / CITY: Shrewsbury
WORK AREA: Univents
STATE: MA

Analysis Type	Turnaround Time (x) 6-8 Hr	12 Hr	24 Hr	48 Hr	72 hr
TEM / AHERA					
TEM / Level II					
TEM / Dust					
TEM / Bulk					
TEM / Water					
PLM					
Mold					
Other:					

Specific Project Notes

Test for PCBs
wipes 5-day turn around
1 SF
1:4 Acetone/Hexane

	SAMPLE ID	MATERIAL DESCRIPTION	SAMPLE LOCATION	START	STOP	TIME	L/MIN	VOLUME
1	1	wipe sample	Location 1					
2	2		Location 2					
3	3		Location 3					
4	4		Location 4					
5	5		Location 5					
6	6		Location 6					
7	7		Location 7					
8	8		Location 8					
9	9		Location 9					
10	10		Location 10					
11	11		Location 11					
12	12		Location 12					
13	13		Location 13					
14	14		Location 14					
15	15		Location 15					
16	16	wipe sample	Field blank					

SAMPLED BY: Jason Bent 4-3-13 DATE/TIME:
RECEIVED BY: DATE/TIME: 4/4/13 0920 4°C Blue ICE
RELINQUISHED BY: DATE/TIME:
RECEIVED IN LAB BY: DATE/TIME:

RECEIVED APR 03 2013 By SEL 16:25

walkin

011301334

EMSL Relinquish Form
Revision 3
July 31, 2009

011301334

PCB WIPE

EMSL Analytical, Inc.
Relinquish Form

Initial Lab:	EMSL- Boston 7 Constitution Way Suite 107 Woburn, MA 01801	Phone Number:	781-933-8411
		Fax Number:	781-933-8412
Relinquished to:	EMSL- Cinnaminson 200 Route 130 North Cinnaminson, NJ 08077	Phone Number:	856-858-4800
		Fax Number:	856-786-5973
Does new Lab hold equivalent or additional accreditation*		☒ Yes	☐ No

EMSL Customer ID #:	UEC63
Client Name:	Universal Environmental Consultants Contact: Ammar Dieb
Client Project:	Sherwood MS; Unit Vents; Shrewsbury, MA
Date Received:	Wednesday April 3, 2013
Date Relinquished:	Wednesday April 3, 2013
Date Due:	1 week tat from date/time received in NJ
Special Instructions:	Please email results to Ammar Dieb

Relinquished by (Signature): Stephanie Anderson	Date: 4/3/13	Received by (Signature)	Date: 4/4/13
Relinquished by (Signature):	Date:	Received by (Signature)	Date:

Client Notification- Please sign this form and fax to the original laboratory. By signing below you agree to allow the above named laboratory to relinquish the samples to a new laboratory with equivalent or additional certification.

Name (please Print)	Signature	Agent of:	Date:

If this is a reoccurring project or sample type that will require samples to be relinquished on a regular basis please sign below and the laboratory will keep this form on file.

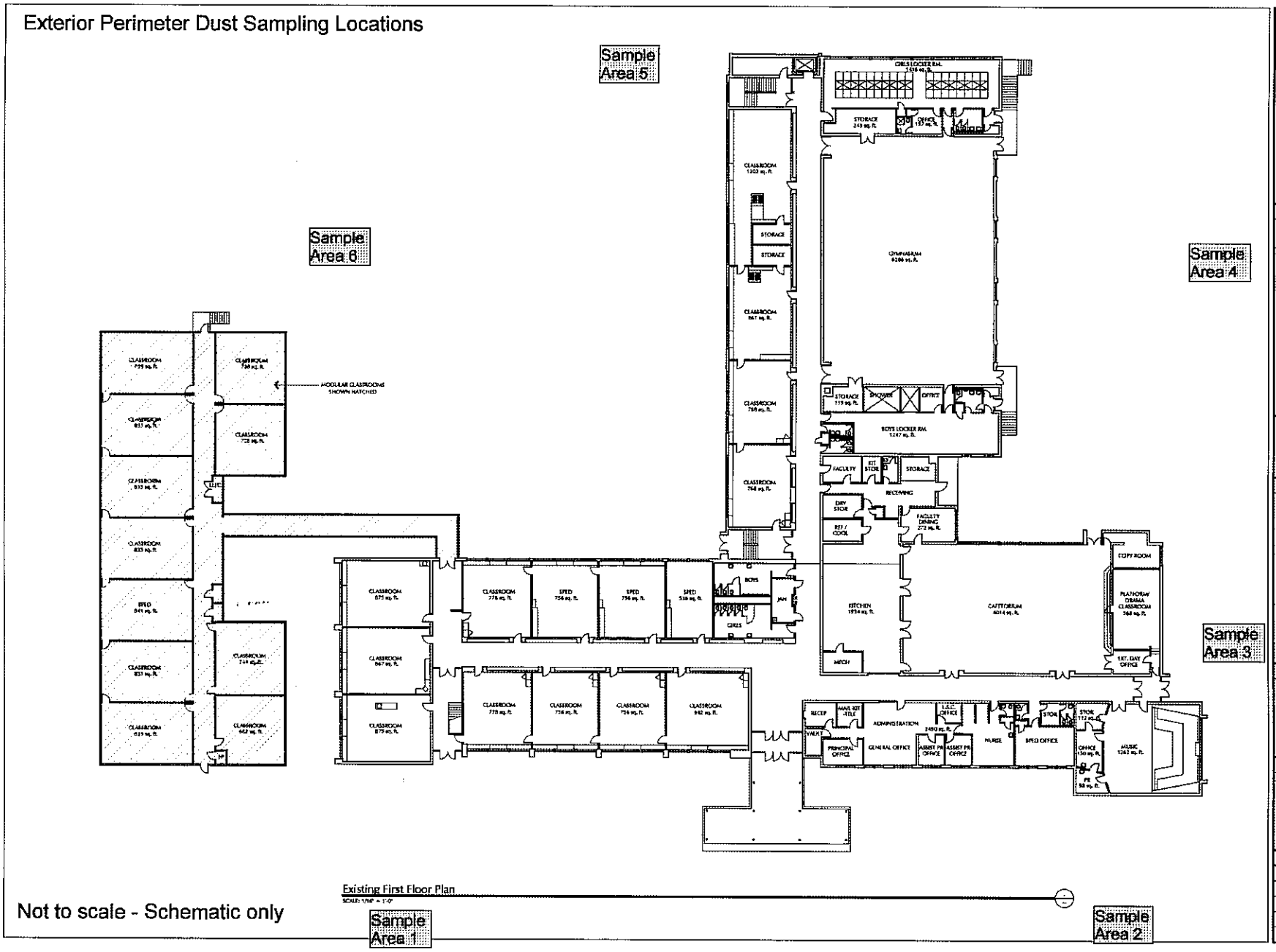
Name (please Print)	Signature	Agent of:	Date:

- All accreditation information and certificates can be found at www.emsl.com.

Revision Notes

APPENDIX C

Exterior Perimeter Dust Sampling Locations



Not to scale - Schematic only

LAMOUREUX·PAGANO ASSOCIATES, ARCHITECTS
14 EAST WORCESTER STREET
WORCESTER, MASSACHUSETTS 01604

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

OWNER

SHREWSBURY SCHOOL DEPARTMENT

Town of Shrewsbury
Massachusetts
01545

PROJECT

SHERWOOD MIDDLE SCHOOL

45 OAK STREET
SHREWSBURY, MASSACHUSETTS

TITLE

Existing First Floor Plan

REVISIONS

No.	DESCRIPTION	DATE

FILE: 0914-***.DWG/LPA TYP.PLT

DWN. BY: –
CKD. BY: –
JOB NO: 0914
SCALE: –
DATE: –/–/–

EX 1

UEC universal environmental consultants
12 Brewster Road, Framingham, MA 01702
Phone: 508.628.5486 - Fax: 508.628.5488

SAMPLE DATA SHEET

working in SE side

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

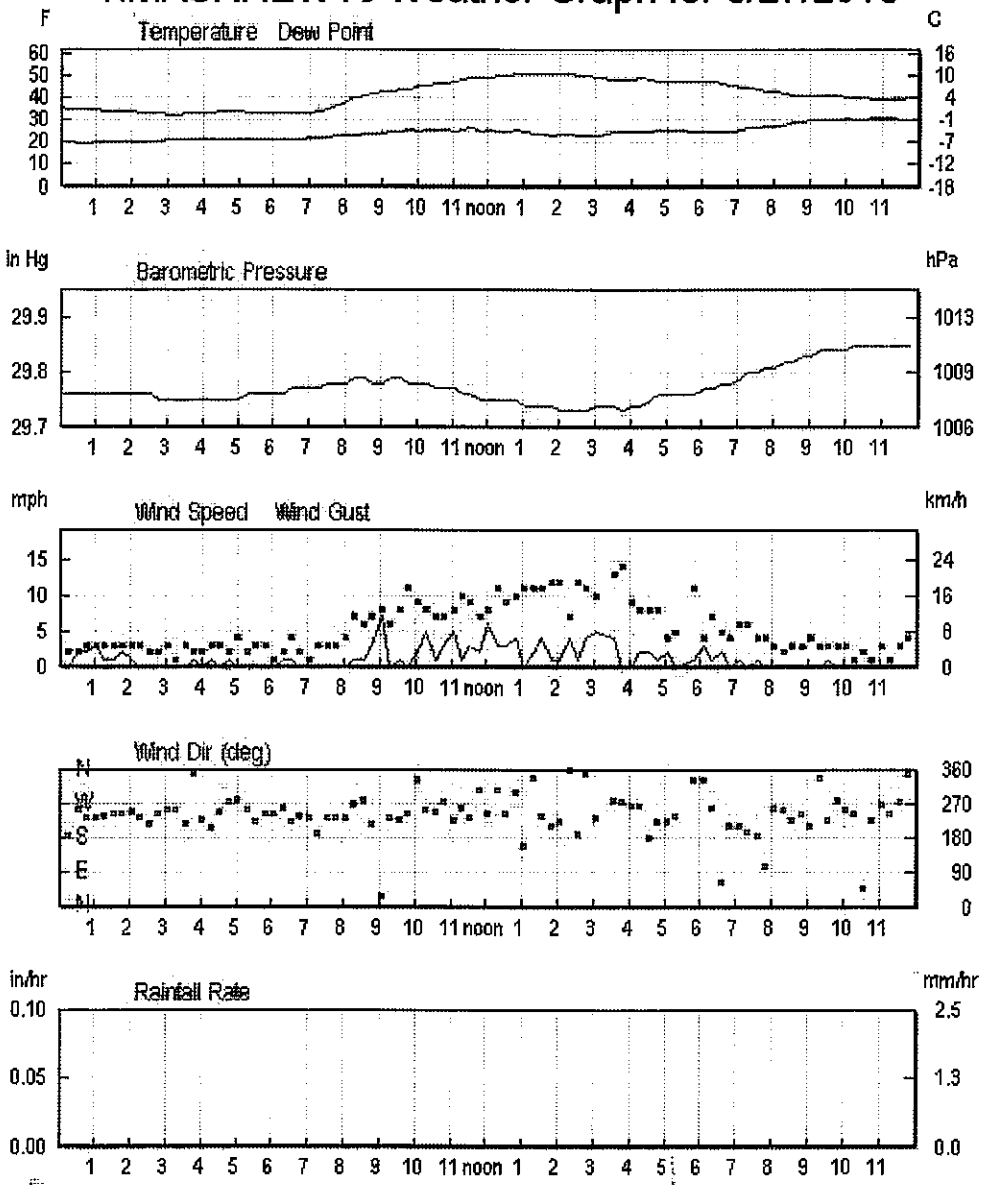
DATE: 3-27-13 — **PAGE** 1 **OF** 1

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1		1002	calibration	→		
2	001	1007	area 2	.012/.007/.006/.005/.005	NE 5	1 2 3
3	002	1018	area 1	.008/.006/.005/.005/.005		1 2 3
4	003	1029	area 3	.008/.006/.005/.005/.005		1 2 3
5	004	1040	area 4	.017/.009/.007/.006/.006		1, 2, 3
6	005	1051	area 5	.023/.012/.008/.007/.007		1, 2, 3
7	006	1103	area 6	.046/.023/.013/.011/.011	NE 5	1, 2, 3
8	007	1304	area 1	.013/.005/.004/.004/.003	NE 3	1, 2, 3 demo activity creating #4 @ SE side
9	008	1317	area 2	.009/.005/.004/.003/.003		1, 2, 3
10	009	1379	area 3	.037/.019/.011/.009/.009		1, 2, 3
11	010	1341	area 4	.009/.005/.004/.004/.004		1, 2, 3
12	011	1353	area 5	.094/.045/.023/.020/.019		1, 2, 3
13	012	1406	area 6	.026/.014/.008/.008/.007	NE 3	1, 2, 3
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012
Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
[signature]	3-27-13		

KMASHREW10 Weather Graph for 3/27/2013



Weather Underground*
wunderground.com

Shrewsbury, Sherwood MS, Ext Perimiter Dust 3-27-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	03/27/2013	10:07:04	0:00:10:00	0.005	mg/m^3	PM1	0.056	0.002
					0.005	mg/m^3	PM2.5	0.057	0.002
					0.006	mg/m^3	RESP	0.061	0.002
					0.007	mg/m^3	PM10	0.098	0.002
					0.012	mg/m^3	TOTAL	0.256	0.002
DustTrak DRX 8534124302	002	03/27/2013	10:18:31	0:00:10:00	0.005	mg/m^3	PM1	0.038	0.003
					0.005	mg/m^3	PM2.5	0.038	0.003
					0.005	mg/m^3	RESP	0.040	0.004
					0.006	mg/m^3	PM10	0.076	0.004
					0.008	mg/m^3	TOTAL	0.112	0.004
DustTrak DRX 8534124302	003	03/27/2013	10:29:58	0:00:10:00	0.005	mg/m^3	PM1	0.037	0.003
					0.005	mg/m^3	PM2.5	0.037	0.004
					0.005	mg/m^3	RESP	0.038	0.004
					0.006	mg/m^3	PM10	0.040	0.004
					0.008	mg/m^3	TOTAL	0.124	0.004
DustTrak DRX 8534124302	004	03/27/2013	10:40:46	0:00:10:00	0.006	mg/m^3	PM1	0.104	0.003
					0.006	mg/m^3	PM2.5	0.106	0.004
					0.007	mg/m^3	RESP	0.112	0.004

Shrewsbury, Sherwood MS, Ext Perimiter Dust 3-27-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	03/27/2013	10:40:46	0:00:10:00	0.009	mg/m^3	PM10	0.222	0.004
					0.017	mg/m^3	TOTAL	0.587	0.004
DustTrak DRX 8534124302	005	03/27/2013	10:51:56	0:00:10:00	0.007	mg/m^3	PM1	0.065	0.003
					0.007	mg/m^3	PM2.5	0.066	0.003
					0.008	mg/m^3	RESP	0.074	0.003
					0.012	mg/m^3	PM10	0.157	0.003
					0.023	mg/m^3	TOTAL	0.493	0.003
DustTrak DRX 8534124302	006	03/27/2013	11:03:34	0:00:10:00	0.011	mg/m^3	PM1	0.258	0.003
					0.011	mg/m^3	PM2.5	0.267	0.003
					0.013	mg/m^3	RESP	0.309	0.003
					0.023	mg/m^3	PM10	0.704	0.003
					0.046	mg/m^3	TOTAL	1.690	0.003
DustTrak DRX 8534124302	007	03/27/2013	13:04:44	0:00:10:00	0.003	mg/m^3	PM1	0.076	0.001
					0.004	mg/m^3	PM2.5	0.078	0.001
					0.004	mg/m^3	RESP	0.082	0.001
					0.005	mg/m^3	PM10	0.192	0.001
					0.013	mg/m^3	TOTAL	0.715	0.001
DustTrak DRX 8534124302	008	03/27/2013	13:17:52	0:00:10:00	0.003	mg/m^3	PM1	0.030	0.001

Shrewsbury, Sherwood MS, Ext Perimiter Dust 3-27-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	03/27/2013	13:17:52	0:00:10:00	0.003	mg/m^3	PM2.5	0.030	0.001
					0.004	mg/m^3	RESP	0.032	0.001
					0.005	mg/m^3	PM10	0.046	0.001
					0.009	mg/m^3	TOTAL	0.098	0.001
DustTrak DRX 8534124302	009	03/27/2013	13:29:36	0:00:10:00	0.009	mg/m^3	PM1	0.131	0.002
					0.009	mg/m^3	PM2.5	0.136	0.002
					0.011	mg/m^3	RESP	0.154	0.002
					0.019	mg/m^3	PM10	0.273	0.002
					0.039	mg/m^3	TOTAL	0.657	0.002
DustTrak DRX 8534124302	010	03/27/2013	13:41:05	0:00:10:00	0.004	mg/m^3	PM1	0.065	0.002
					0.004	mg/m^3	PM2.5	0.065	0.002
					0.004	mg/m^3	RESP	0.065	0.002
					0.005	mg/m^3	PM10	0.066	0.002
					0.009	mg/m^3	TOTAL	0.129	0.002
DustTrak DRX 8534124302	011	03/27/2013	13:53:15	0:00:10:00	0.019	mg/m^3	PM1	0.174	0.003
					0.020	mg/m^3	PM2.5	0.182	0.003
					0.023	mg/m^3	RESP	0.222	0.003
					0.045	mg/m^3	PM10	0.456	0.003

Shrewsbury, Sherwood MS, Ext Perimiter Dust 3-27-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	011	03/27/2013	13:53:15	0:00:10:00	0.094	mg/m^3	TOTAL	0.764	0.003
DustTrak DRX 8534124302	012	03/27/2013	14:06:20	0:00:10:00	0.007	mg/m^3	PM1	0.052	0.002
					0.008	mg/m^3	PM2.5	0.053	0.002
					0.008	mg/m^3	RESP	0.054	0.002
					0.014	mg/m^3	PM10	0.103	0.002
					0.026	mg/m^3	TOTAL	0.238	0.002

UEC universal environmental consultants
12 Brewster Road, Framingham, MA 01702
Phone: 508.628.5486 - Fax: 508.628.5488

SAMPLE DATA SHEET

work site SE side

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

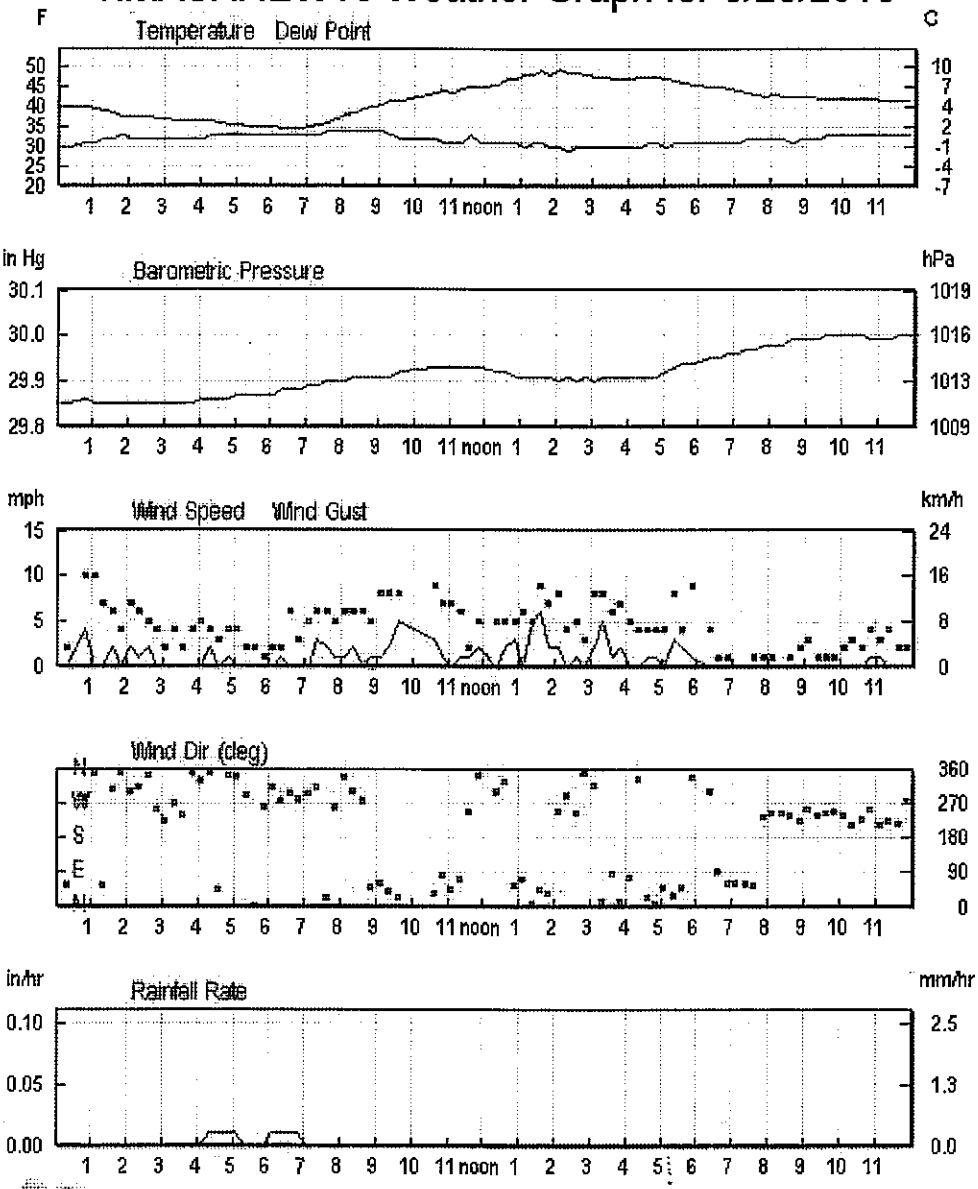
DATE: 3-28-13 — **PAGE** 1 **OF** 1

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1		0924	Calibration	—		
2	001	0926	area 1	.005/.004/.004/.003/.003	NE4	1, 2
3	002	0938	area 2	.005/.004/.004/.003/.003		1, 2
4	003	0949	area 3	.006/.005/.004/.004/.004		1, 2
5	004	1001	area 4	.013/.008/.006/.006/.006		1, 2
6	005	1013	area 5	.013/.008/.006/.006/.005		1, 2, 3
7	006	1025	area 6	.008/.006/.005/.005/.005	NE4	1, 2, 3
8	007	1312	area 1	.007/.004/.004/.003/.003	W 6	1, 2
9	008	1325	area 2	.007/.004/.003/.003/.003	NE 6	1, 2
10	009	1336	area 3	.022/.012/.007/.006/.006	NW 6	1, 2
11	010	1349	area 4	.016/.008/.005/.005/.005	N 6	1, 2
12	011	1401	area 5	.245/.097/.050/.045/.044	NE 6	1, 2, 3
13	012	1413	area 6	.169/.070/.039/.036/.035		1, 2, 3 demo inside #4, not using water
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012
Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	3-28-13		

KMASHREW10 Weather Graph for 3/28/2013



Weather Underground
wunderground.com

Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-28-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	03/28/2013	09:26:18	0:00:10:00	0.003	mg/m^3	PM1	0.027	0.001
					0.003	mg/m^3	PM2.5	0.027	0.001
					0.004	mg/m^3	RESP	0.028	0.001
					0.004	mg/m^3	PM10	0.030	0.001
					0.005	mg/m^3	TOTAL	0.181	0.001
DustTrak DRX 8534124302	002	03/28/2013	09:38:20	0:00:10:00	0.003	mg/m^3	PM1	0.019	0.002
					0.003	mg/m^3	PM2.5	0.019	0.002
					0.004	mg/m^3	RESP	0.020	0.002
					0.004	mg/m^3	PM10	0.029	0.002
					0.005	mg/m^3	TOTAL	0.067	0.002
DustTrak DRX 8534124302	003	03/28/2013	09:49:36	0:00:10:00	0.004	mg/m^3	PM1	0.024	0.002
					0.004	mg/m^3	PM2.5	0.024	0.002
					0.004	mg/m^3	RESP	0.025	0.002
					0.005	mg/m^3	PM10	0.046	0.002
					0.006	mg/m^3	TOTAL	0.091	0.002
DustTrak DRX 8534124302	004	03/28/2013	10:01:18	0:00:10:00	0.006	mg/m^3	PM1	0.062	0.002
					0.006	mg/m^3	PM2.5	0.063	0.002
					0.006	mg/m^3	RESP	0.063	0.002

Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-28-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	03/28/2013	10:01:18	0:00:10:00	0.008	mg/m^3	PM10	0.069	0.002
					0.013	mg/m^3	TOTAL	0.218	0.002
DustTrak DRX 8534124302	005	03/28/2013	10:13:17	0:00:10:00	0.005	mg/m^3	PM1	0.089	0.002
					0.006	mg/m^3	PM2.5	0.090	0.002
					0.006	mg/m^3	RESP	0.093	0.002
					0.008	mg/m^3	PM10	0.105	0.002
					0.013	mg/m^3	TOTAL	0.323	0.002
DustTrak DRX 8534124302	006	03/28/2013	10:25:18	0:00:10:00	0.005	mg/m^3	PM1	0.036	0.002
					0.005	mg/m^3	PM2.5	0.036	0.002
					0.005	mg/m^3	RESP	0.036	0.002
					0.006	mg/m^3	PM10	0.040	0.002
					0.008	mg/m^3	TOTAL	0.101	0.002
DustTrak DRX 8534124302	007	03/28/2013	13:13:01	0:00:10:00	0.003	mg/m^3	PM1	0.032	0.002
					0.003	mg/m^3	PM2.5	0.032	0.002
					0.003	mg/m^3	RESP	0.033	0.002
					0.004	mg/m^3	PM10	0.054	0.002
					0.007	mg/m^3	TOTAL	0.123	0.002
DustTrak DRX 8534124302	008	03/28/2013	13:25:29	0:00:10:00	0.003	mg/m^3	PM1	0.070	0.002

Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-28-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	03/28/2013	13:25:29	0:00:10:00	0.003	mg/m^3	PM2.5	0.072	0.002
					0.003	mg/m^3	RESP	0.078	0.002
					0.004	mg/m^3	PM10	0.120	0.002
					0.007	mg/m^3	TOTAL	0.621	0.002
DustTrak DRX 8534124302	009	03/28/2013	13:36:46	0:00:10:00	0.006	mg/m^3	PM1	0.041	0.001
					0.006	mg/m^3	PM2.5	0.041	0.002
					0.007	mg/m^3	RESP	0.044	0.002
					0.012	mg/m^3	PM10	0.062	0.002
					0.022	mg/m^3	TOTAL	0.343	0.002
DustTrak DRX 8534124302	010	03/28/2013	13:49:18	0:00:10:00	0.005	mg/m^3	PM1	0.056	0.001
					0.005	mg/m^3	PM2.5	0.056	0.001
					0.005	mg/m^3	RESP	0.061	0.001
					0.008	mg/m^3	PM10	0.091	0.001
					0.016	mg/m^3	TOTAL	0.304	0.001
DustTrak DRX 8534124302	011	03/28/2013	14:01:53	0:00:10:00	0.044	mg/m^3	PM1	1.800	0.002
					0.045	mg/m^3	PM2.5	1.820	0.002
					0.050	mg/m^3	RESP	1.930	0.002
					0.097	mg/m^3	PM10	3.120	0.002

Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-28-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	011	03/28/2013	14:01:53	0:00:10:00	0.245	mg/m^3	TOTAL	9.060	0.002
DustTrak DRX 8534124302	012	03/28/2013	14:13:28	0:00:10:00	0.035	mg/m^3	PM1	0.779	0.002
					0.036	mg/m^3	PM2.5	0.785	0.002
					0.039	mg/m^3	RESP	0.812	0.002
					0.070	mg/m^3	PM10	1.070	0.002
					0.169	mg/m^3	TOTAL	2.130	0.002

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SAMPLE DATA SHEET

working on SE and SS sides
SW side in afternoon

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

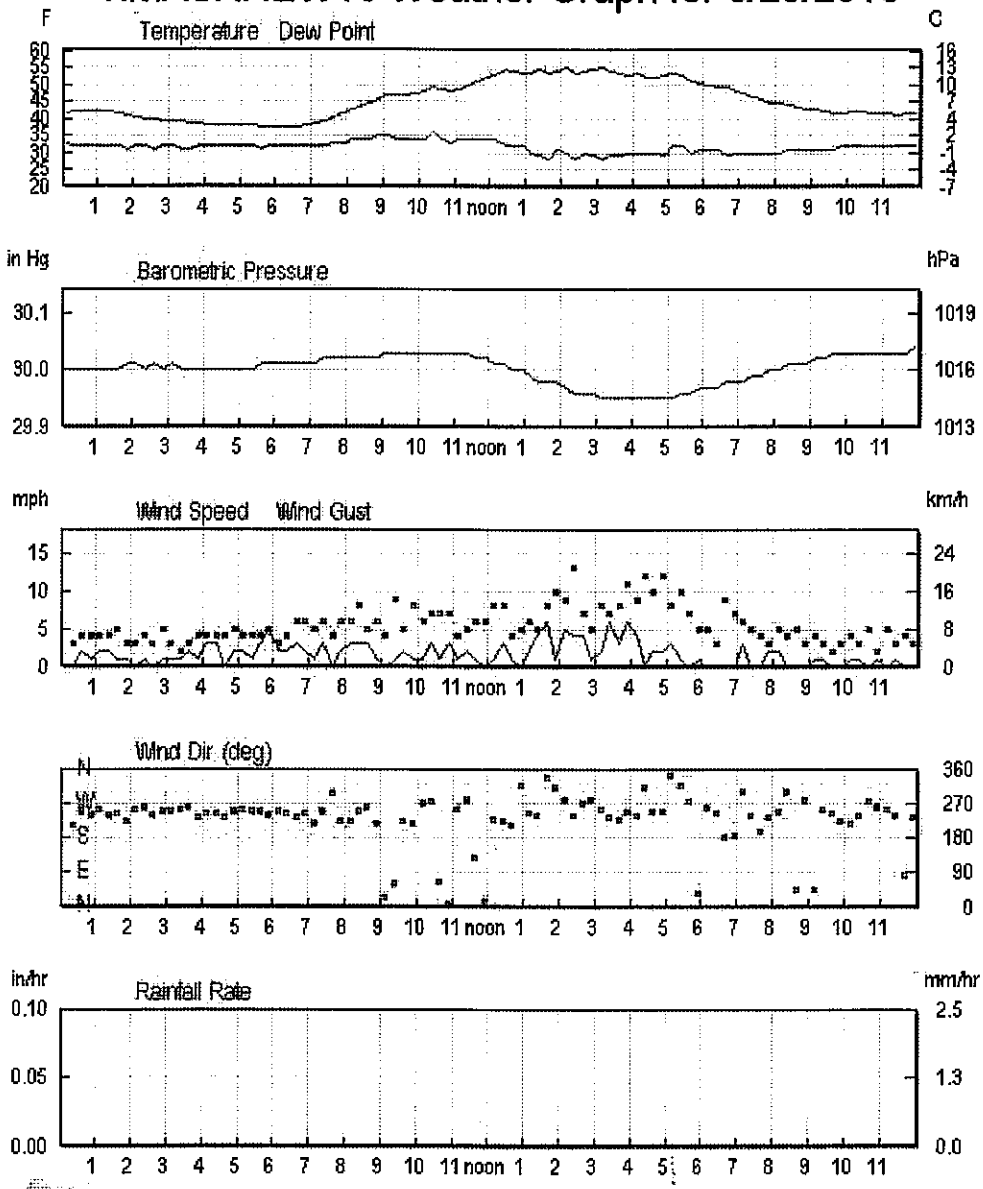
DATE: 3-29-13 — **PAGE** 1 **OF**

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1		0912	calibration			
2	001	0914	area 1	.008/.006/.005/.005/.005	NE 2	1,2
3	002	0926	area 2	.009/.007/.006/.006/.006	N 2	1,2
4	003	0937	area 3	.012/.008/.006/.006/.006		1,2
5	004	0949	area 4	.010/.007/.006/.006/.005	NW 2	1,2,3
6	005	1001	area 5	.115/.052/.028/.025/.024		1,2,3 demo causing 4
7	006	1013	area 6	.027/.016/.011/.010/.010		1,2,3
8	007	1301	area 1	.009/.005/.004/.004/.004	NW 2	1,2
9	008	1313	area 2	.009/.005/.004/.004/.004		1,2
10	009	1326	area 3	.066/.033/.016/.014/.014		1,2
11	010	1338	area 4	.023/.010/.007/.006/.006	W 2	1,2
12	011	1353	area 5	.232/.113/.055/.047/.045		1,2 wet sweeping parking lot
13	012	1405	area 6	.074/.039/.020/.017/.016		1,2 wet sweeping parking lot
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012
Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	3-29-13		

KMASHREW10 Weather Graph for 3/29/2013



Weather Underground
wunderground.com

Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-29-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	03/29/2013	09:14:49	0:00:10:00	0.005	mg/m^3	PM1	0.028	0.003
					0.005	mg/m^3	PM2.5	0.028	0.003
					0.005	mg/m^3	RESP	0.028	0.003
					0.006	mg/m^3	PM10	0.041	0.003
					0.008	mg/m^3	TOTAL	0.137	0.003
DustTrak DRX 8534124302	002	03/29/2013	09:26:44	0:00:10:00	0.006	mg/m^3	PM1	0.149	0.004
					0.006	mg/m^3	PM2.5	0.149	0.004
					0.006	mg/m^3	RESP	0.149	0.004
					0.007	mg/m^3	PM10	0.158	0.004
					0.009	mg/m^3	TOTAL	0.158	0.004
DustTrak DRX 8534124302	003	03/29/2013	09:37:50	0:00:10:00	0.006	mg/m^3	PM1	0.039	0.004
					0.006	mg/m^3	PM2.5	0.039	0.004
					0.006	mg/m^3	RESP	0.039	0.004
					0.008	mg/m^3	PM10	0.054	0.004
					0.012	mg/m^3	TOTAL	0.181	0.004
DustTrak DRX 8534124302	004	03/29/2013	09:49:22	0:00:10:00	0.005	mg/m^3	PM1	0.084	0.004
					0.006	mg/m^3	PM2.5	0.085	0.004
					0.006	mg/m^3	RESP	0.086	0.004

Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-29-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	03/29/2013	09:49:22	0:00:10:00	0.007	mg/m^3	PM10	0.104	0.004
					0.010	mg/m^3	TOTAL	0.172	0.004
DustTrak DRX 8534124302	005	03/29/2013	10:01:19	0:00:10:00	0.024	mg/m^3	PM1	0.162	0.004
					0.025	mg/m^3	PM2.5	0.165	0.004
					0.028	mg/m^3	RESP	0.181	0.004
					0.052	mg/m^3	PM10	0.387	0.004
					0.115	mg/m^3	TOTAL	1.160	0.004
DustTrak DRX 8534124302	006	03/29/2013	10:13:14	0:00:10:00	0.010	mg/m^3	PM1	0.069	0.004
					0.010	mg/m^3	PM2.5	0.069	0.004
					0.011	mg/m^3	RESP	0.069	0.004
					0.016	mg/m^3	PM10	0.086	0.004
					0.027	mg/m^3	TOTAL	0.259	0.004
DustTrak DRX 8534124302	007	03/29/2013	13:01:14	0:00:10:00	0.004	mg/m^3	PM1	0.024	0.002
					0.004	mg/m^3	PM2.5	0.024	0.002
					0.004	mg/m^3	RESP	0.025	0.002
					0.005	mg/m^3	PM10	0.036	0.002
					0.009	mg/m^3	TOTAL	0.259	0.002
DustTrak DRX 8534124302	008	03/29/2013	13:13:29	0:00:10:00	0.004	mg/m^3	PM1	0.035	0.002

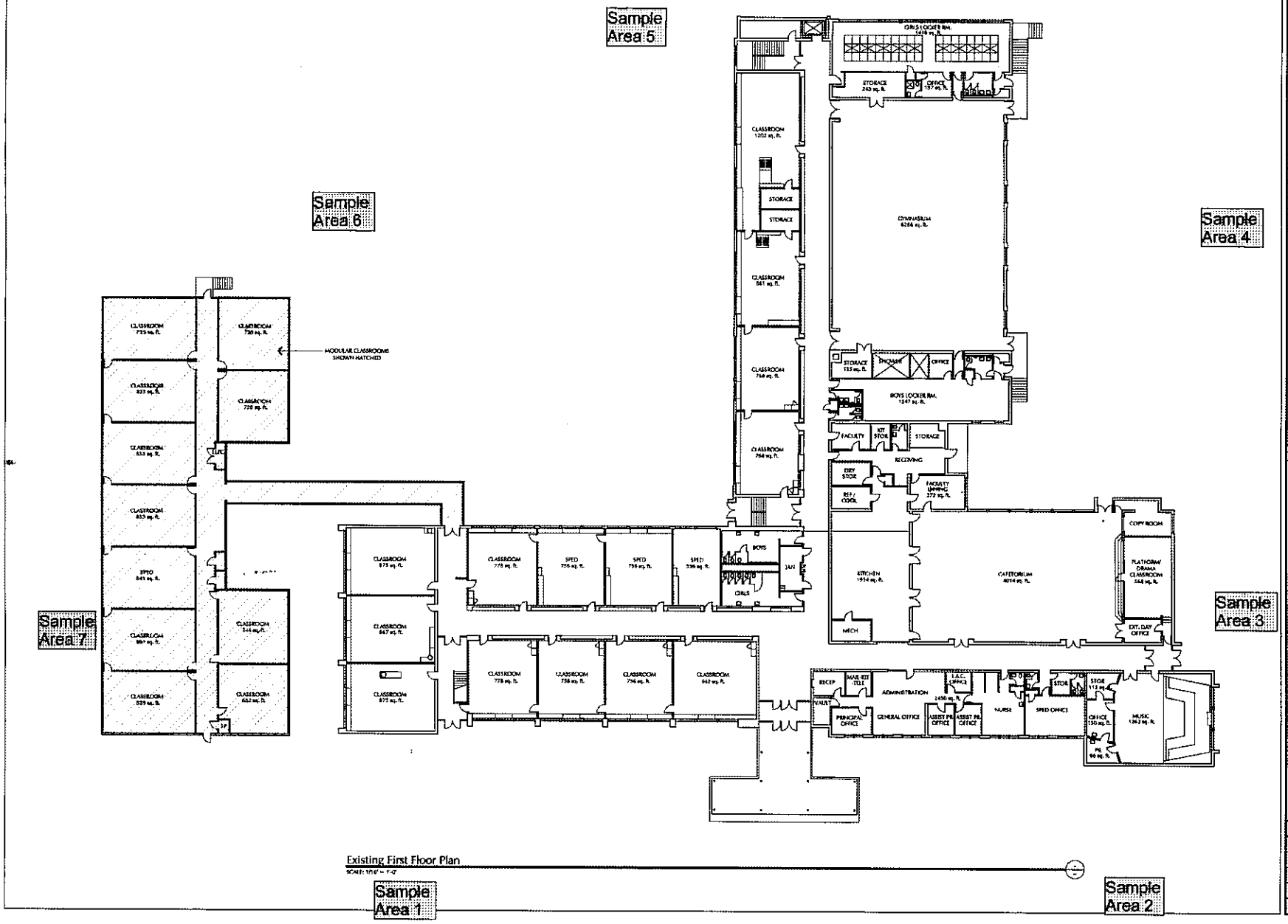
Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-29-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	03/29/2013	13:13:29	0:00:10:00	0.004	mg/m^3	PM2.5	0.035	0.002
					0.004	mg/m^3	RESP	0.036	0.002
					0.005	mg/m^3	PM10	0.056	0.002
					0.009	mg/m^3	TOTAL	0.166	0.002
DustTrak DRX 8534124302	009	03/29/2013	13:26:55	0:00:10:00	0.014	mg/m^3	PM1	0.118	0.002
					0.014	mg/m^3	PM2.5	0.121	0.002
					0.016	mg/m^3	RESP	0.130	0.002
					0.033	mg/m^3	PM10	0.255	0.002
					0.066	mg/m^3	TOTAL	0.618	0.002
DustTrak DRX 8534124302	010	03/29/2013	13:38:37	0:00:10:00	0.006	mg/m^3	PM1	0.141	0.001
					0.006	mg/m^3	PM2.5	0.143	0.001
					0.007	mg/m^3	RESP	0.158	0.001
					0.010	mg/m^3	PM10	0.382	0.001
					0.023	mg/m^3	TOTAL	1.750	0.001
DustTrak DRX 8534124302	011	03/29/2013	13:53:32	0:00:10:00	0.045	mg/m^3	PM1	0.449	0.002
					0.047	mg/m^3	PM2.5	0.468	0.002
					0.055	mg/m^3	RESP	0.549	0.003
					0.113	mg/m^3	PM10	1.210	0.006

Shrewsbury, Sherwood MS, Ext Perimeter Dust 3-29-13

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	011	03/29/2013	13:53:32	0:00:10:00	0.232	mg/m^3	TOTAL	2.390	0.006
DustTrak DRX 8534124302	012	03/29/2013	14:05:14	0:00:10:00	0.016	mg/m^3	PM1	0.236	0.002
					0.017	mg/m^3	PM2.5	0.240	0.002
					0.020	mg/m^3	RESP	0.252	0.002
					0.039	mg/m^3	PM10	0.328	0.002
					0.074	mg/m^3	TOTAL	0.522	0.002

Exterior Perimeter Dust Sampling Locations



Existing First Floor Plan

SCALE: 1/16" = 1'-0"

LAMOUREUX-PAGANO ASSOCIATES, ARCHITECTS

14 EAST WORCESTER STREET
WORCESTER, MASSACHUSETTS 01604

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

OWNER

SHREWSBURY SCHOOL DEPARTMENT

Town of Shrewsbury
Massachusetts
01545

PROJECT

SHERWOOD MIDDLE SCHOOL

45 OAK STREET
SHREWSBURY, MASSACHUSETTS

TITLE

Existing First Floor Plan

REVISIONS

No.	DESCRIPTION	DATE

FILE: 0914-***.DWG/LPA TYP.PLT

DWN. BY: --
CKD. BY: --
JOB NO: 0914
SCALE: --
DATE: --/--/--

EX
1

UEC Universal Environmental Consultants

12 Brewster Road, Framingham, MA 01702
Phone: 508.628.5486 - Fax: 508.628.5488

SAMPLE DATA SHEET

work on NE side

PROJECT: Shrewsbury, Sherwood MS | **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

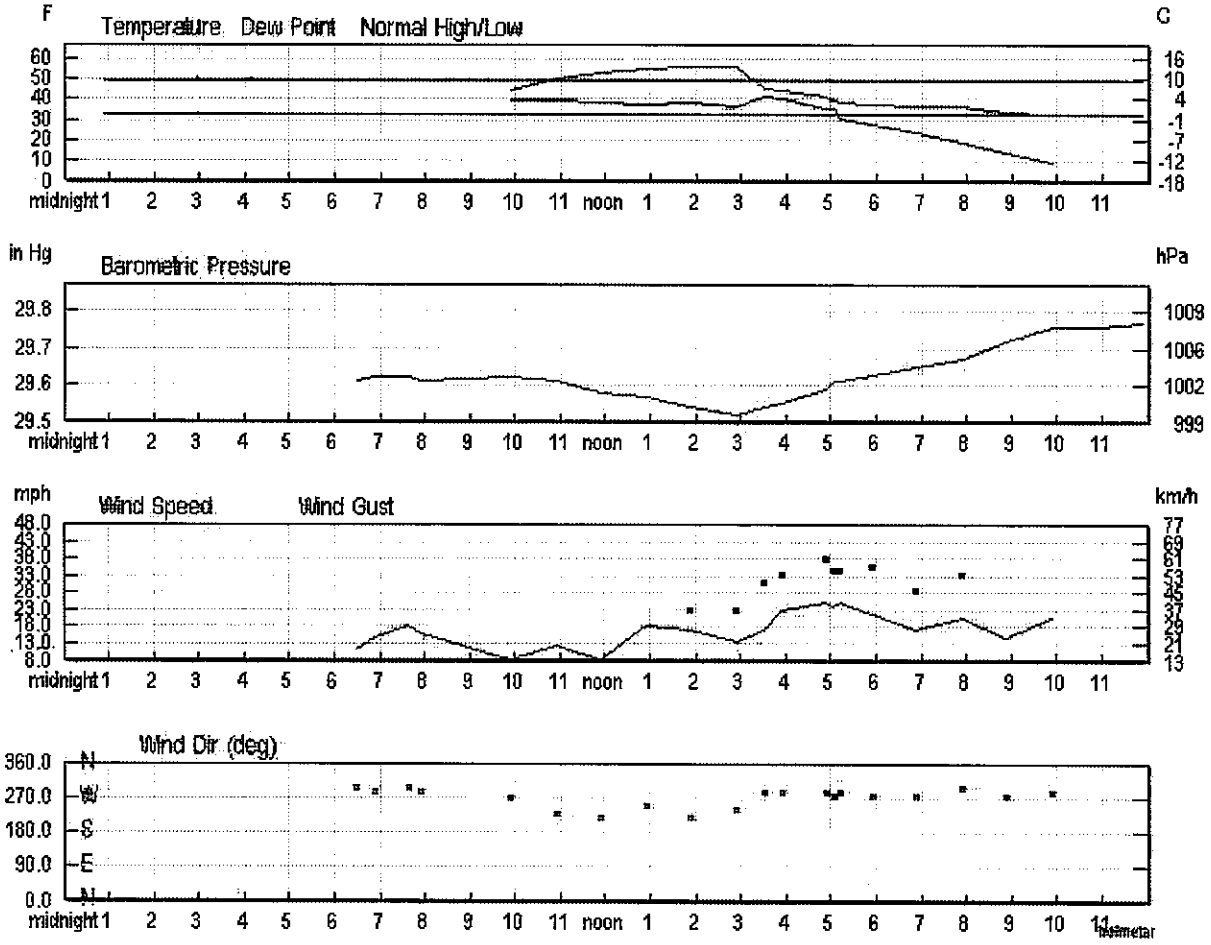
SAMPLED BY: Jason Becotte | **PROJECT NUMBER:** 213 044.00

DATE: 4-1-13 | **PAGE** 1 **OF**

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other dense in area 4: Visible emissions 5: Wet-cutting masonry
1		0939	calibrate	———	WNW	
2	001	0942	area 1	.024/.016/.014/.013/.013	WNW	1, 2
3	002	0954	area 2	.013/.012/.011/.011/.011		1, 2
4	003	1007	area 3	.015/.014/.013/.013/.013		
5	004	1020	area 5	.120/.057/.032/.029/.029		1, 3
6	005	1033	area 6	.047/.024/.018/.017/.017	W	1, 3
7	006	1054	area 2	.016/.014/.013/.013/.013		1, 2
8	007	1109	area 1	.038/.022/.018/.018/.017		1, 2
9	008	1320	area 1	.046/.031/.024/.023/.023	NW	1, 2
10	009	1333	area 2	.029/.022/.019/.018/.018		1, 2
11	010	1345	area 3	.023/.020/.019/.019/.018		1, 3
12	011	1358	area 5	.338/.160/.084/.073/.070		1, 3 sweeping pavement
13	012	1412	area 1	.037/.028/.024/.023/.023		1, 2
14	013	1426	area 2	.102/.056/.036/.034/.033		1, 2
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012
Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	4-1-13		


F
Temperature Dew Point Normal High/Low
C
60 50 40 30 20 10 0
16 10 4 -1 -7 -12 -18
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
in Hg
Barometric Pressure
hPa
29.8 29.7 29.6 29.5
1009 1006 1002 999
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
mph
Wind Speed Wind Gust
km/h
48.0 43.0 38.0 33.0 28.0 23.0 18.0 13.0 8.0
77 69 61 53 45 37 29 21 13
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
Wind Dir (deg)
360.0 270.0 180.0 90.0 0.0
N W S E N
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/01/2013	09:42:11	0:00:10:00	0.013	mg/m^3	PM1	0.053	0.009
					0.013	mg/m^3	PM2.5	0.053	0.009
					0.014	mg/m^3	RESP	0.059	0.009
					0.016	mg/m^3	PM10	0.111	0.009
					0.020	mg/m^3	TOTAL	0.245	0.009
DustTrak DRX 8534124302	002	04/01/2013	09:54:06	0:00:10:00	0.011	mg/m^3	PM1	0.020	0.010
					0.011	mg/m^3	PM2.5	0.020	0.010
					0.011	mg/m^3	RESP	0.021	0.010
					0.012	mg/m^3	PM10	0.023	0.010
					0.013	mg/m^3	TOTAL	0.274	0.010
DustTrak DRX 8534124302	003	04/01/2013	10:07:40	0:00:10:00	0.013	mg/m^3	PM1	0.056	0.010
					0.013	mg/m^3	PM2.5	0.057	0.010
					0.013	mg/m^3	RESP	0.057	0.010
					0.014	mg/m^3	PM10	0.064	0.011
					0.015	mg/m^3	TOTAL	0.156	0.011
DustTrak DRX 8534124302	004	04/01/2013	10:21:02	0:00:10:00	0.029	mg/m^3	PM1	0.437	0.011
					0.029	mg/m^3	PM2.5	0.451	0.011
					0.032	mg/m^3	RESP	0.506	0.011
					0.057	mg/m^3	PM10	0.959	0.011

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/01/2013	10:21:02	0:00:10:00	0.120	mg/m^3	TOTAL	2.570	0.011
DustTrak DRX 8534124302	005	04/01/2013	10:33:07	0:00:10:00	0.017	mg/m^3	PM1	0.066	0.009
					0.017	mg/m^3	PM2.5	0.067	0.009
					0.018	mg/m^3	RESP	0.068	0.010
					0.024	mg/m^3	PM10	0.123	0.011
					0.042	mg/m^3	TOTAL	0.408	0.011
DustTrak DRX 8534124302	006	04/01/2013	10:54:49	0:00:10:00	0.013	mg/m^3	PM1	0.070	0.010
					0.013	mg/m^3	PM2.5	0.070	0.010
					0.013	mg/m^3	RESP	0.070	0.010
					0.014	mg/m^3	PM10	0.072	0.011
					0.016	mg/m^3	TOTAL	0.090	0.011
DustTrak DRX 8534124302	007	04/01/2013	11:09:37	0:00:10:00	0.017	mg/m^3	PM1	0.063	0.012
					0.018	mg/m^3	PM2.5	0.064	0.012
					0.018	mg/m^3	RESP	0.065	0.012
					0.022	mg/m^3	PM10	0.101	0.012
					0.028	mg/m^3	TOTAL	0.339	0.012
DustTrak DRX 8534124302	008	04/01/2013	13:19:58	0:00:10:00	0.023	mg/m^3	PM1	0.122	0.014
					0.023	mg/m^3	PM2.5	0.125	0.015
					0.024	mg/m^3	RESP	0.139	0.015

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/01/2013	13:19:58	0:00:10:00	0.031	mg/m^3	PM10	0.262	0.015
					0.046	mg/m^3	TOTAL	0.756	0.015
DustTrak DRX 8534124302	009	04/01/2013	13:33:16	0:00:10:00	0.018	mg/m^3	PM1	0.061	0.015
					0.018	mg/m^3	PM2.5	0.062	0.015
					0.019	mg/m^3	RESP	0.063	0.015
					0.022	mg/m^3	PM10	0.066	0.015
					0.029	mg/m^3	TOTAL	0.200	0.015
DustTrak DRX 8534124302	010	04/01/2013	13:44:59	0:00:10:00	0.018	mg/m^3	PM1	0.061	0.013
					0.019	mg/m^3	PM2.5	0.061	0.014
					0.019	mg/m^3	RESP	0.062	0.014
					0.020	mg/m^3	PM10	0.076	0.015
					0.023	mg/m^3	TOTAL	0.255	0.015
DustTrak DRX 8534124302	011	04/01/2013	13:58:15	0:00:10:00	0.070	mg/m^3	PM1	1.010	0.014
					0.073	mg/m^3	PM2.5	1.040	0.018
					0.084	mg/m^3	RESP	1.190	0.018
					0.160	mg/m^3	PM10	2.170	0.019
					0.338	mg/m^3	TOTAL	4.610	0.019
DustTrak DRX 8534124302	012	04/01/2013	14:12:40	0:00:10:00	0.023	mg/m^3	PM1	0.074	0.017
					0.023	mg/m^3	PM2.5	0.075	0.018

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	012	04/01/2013	14:12:40	0:00:10:00	0.024	mg/m^3	RESP	0.076	0.018
					0.028	mg/m^3	PM10	0.101	0.018
					0.037	mg/m^3	TOTAL	0.225	0.018
DustTrak DRX 8534124302	013	04/01/2013	14:26:43	0:00:10:00	0.033	mg/m^3	PM1	0.157	0.017
					0.034	mg/m^3	PM2.5	0.159	0.017
					0.036	mg/m^3	RESP	0.163	0.017
					0.056	mg/m^3	PM10	0.259	0.018
					0.102	mg/m^3	TOTAL	0.616	0.018

UEC universal environmental consultants
12 Brewster Road, Framingham, MA 01702
Phone: 508.628.5486 - Fax: 508.628.5488

SAMPLE DATA SHEET

Work on NE and NW sides

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

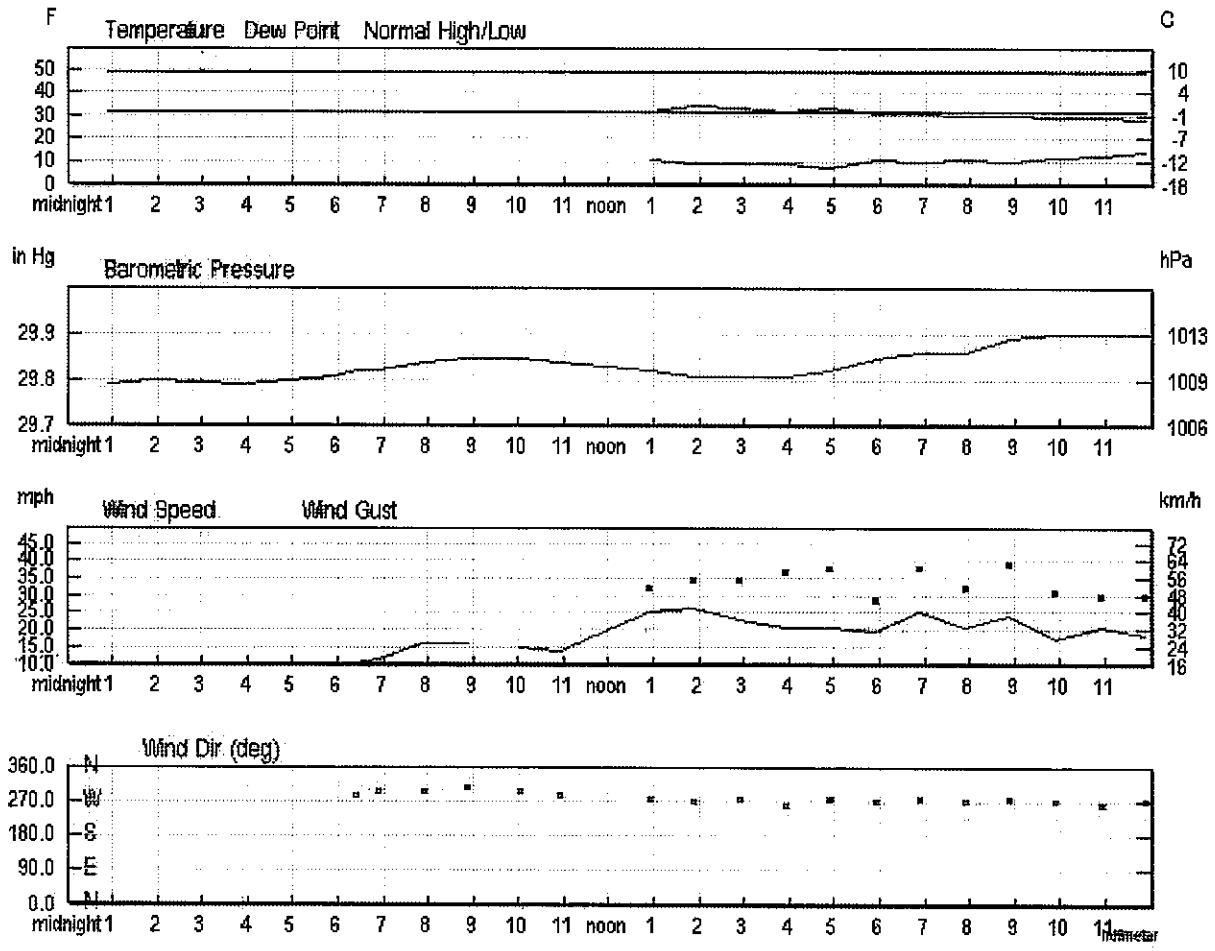
SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

DATE: 4-2-13 — **PAGE** 1 **OF**

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1		0929	calibrate	—	W	
2	001	0934	area 1	.036/.018/.016/.007/.009	WNW	1, 2
3	002	0946	area 2	.014/.006/.004/.004/.004		
4	—	1000	—	Growing		
5	003	1027	area 3	.049/.022/.011/.010/.010	W	1
6	004	1040	area 5	.130/.061/.030/.026/.029	W	
7	005	1106	area 1	.039/.021/.012/.011/.010	NW	1, 2
8	006	1118	area 2	.190/.087/.039/.034/.032		1, 2
9	007	1238	area 1	.029/.014/.008/.008/.007	WNW	1, 2
10	008	1250	area 2	.067/.035/.018/.016/.015		1, 2
11	009	1304	area 7	.078/.038/.020/.018/.017		1, 2
12	010	1317	area 5	.579/.287/.146/.126/.122		1, 3 dry parking lot dust
13	011	1334	area 4	.024/.011/.008/.007/.007		1, 3
14	012	1359	area 1	.036/.020/.011/.010/.009		
15	013	1412	area 7	.159/.080/.040/.034/.032		1, 2
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012
Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
[signature]	4-2-13		


F
Temperature Dew Point Normal High/Low
C
50 40 30 20 10 0
10 4 -1 -7 -12 -18
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
in Hg
Barometric Pressure
hPa
29.9 29.8 29.7
1013 1009 1006
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
mph
Wind Speed Wind Gust
km/h
45.0 40.0 35.0 30.0 25.0 20.0 15.0 10.0
72 64 56 48 40 32 24 16
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
Wind Dir (deg)
360.0 270.0 180.0 90.0 0.0
N W S E N
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/02/2013	09:34:23	0:00:10:00	0.009	mg/m^3	PM1	0.102	0.001
					0.009	mg/m^3	PM2.5	0.106	0.001
					0.010	mg/m^3	RESP	0.125	0.002
					0.018	mg/m^3	PM10	0.299	0.002
					0.036	mg/m^3	TOTAL	0.521	0.002
DustTrak DRX 8534124302	002	04/02/2013	09:46:42	0:00:10:00	0.004	mg/m^3	PM1	0.060	0.002
					0.004	mg/m^3	PM2.5	0.063	0.002
					0.004	mg/m^3	RESP	0.073	0.002
					0.006	mg/m^3	PM10	0.142	0.002
					0.014	mg/m^3	TOTAL	0.431	0.002
DustTrak DRX 8534124302	003	04/02/2013	10:27:15	0:00:10:00	0.010	mg/m^3	PM1	0.281	0.001
					0.010	mg/m^3	PM2.5	0.287	0.001
					0.011	mg/m^3	RESP	0.324	0.001
					0.022	mg/m^3	PM10	0.667	0.002
					0.049	mg/m^3	TOTAL	1.550	0.002
DustTrak DRX 8534124302	004	04/02/2013	10:40:34	0:00:10:00	0.024	mg/m^3	PM1	0.292	0.002
					0.026	mg/m^3	PM2.5	0.298	0.002
					0.030	mg/m^3	RESP	0.323	0.002
					0.061	mg/m^3	PM10	0.632	0.002

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/02/2013	10:40:34	0:00:10:00	0.130	mg/m^3	TOTAL	1.380	0.002
DustTrak DRX 8534124302	005	04/02/2013	11:06:25	0:00:10:00	0.010	mg/m^3	PM1	0.178	0.001
					0.011	mg/m^3	PM2.5	0.180	0.001
					0.012	mg/m^3	RESP	0.189	0.001
					0.021	mg/m^3	PM10	0.227	0.001
					0.039	mg/m^3	TOTAL	0.444	0.001
DustTrak DRX 8534124302	006	04/02/2013	11:18:45	0:00:10:00	0.032	mg/m^3	PM1	0.271	0.002
					0.034	mg/m^3	PM2.5	0.277	0.002
					0.039	mg/m^3	RESP	0.298	0.002
					0.087	mg/m^3	PM10	0.615	0.002
					0.190	mg/m^3	TOTAL	1.400	0.002
DustTrak DRX 8534124302	007	04/02/2013	12:38:01	0:00:10:00	0.007	mg/m^3	PM1	0.097	0.002
					0.008	mg/m^3	PM2.5	0.098	0.002
					0.008	mg/m^3	RESP	0.110	0.002
					0.014	mg/m^3	PM10	0.210	0.002
					0.029	mg/m^3	TOTAL	0.633	0.002
DustTrak DRX 8534124302	008	04/02/2013	12:50:27	0:00:10:00	0.015	mg/m^3	PM1	0.213	0.002
					0.016	mg/m^3	PM2.5	0.228	0.002
					0.018	mg/m^3	RESP	0.283	0.002

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/02/2013	12:50:27	0:00:10:00	0.035	mg/m^3	PM10	0.601	0.003
					0.067	mg/m^3	TOTAL	0.869	0.003
DustTrak DRX 8534124302	009	04/02/2013	13:04:31	0:00:10:00	0.017	mg/m^3	PM1	0.165	0.001
					0.018	mg/m^3	PM2.5	0.166	0.002
					0.020	mg/m^3	RESP	0.172	0.003
					0.038	mg/m^3	PM10	0.260	0.003
					0.078	mg/m^3	TOTAL	0.748	0.003
DustTrak DRX 8534124302	010	04/02/2013	13:17:51	0:00:10:00	0.122	mg/m^3	PM1	4.160	0.003
					0.126	mg/m^3	PM2.5	4.230	0.004
					0.146	mg/m^3	RESP	4.590	0.008
					0.287	mg/m^3	PM10	7.530	0.015
					0.579	mg/m^3	TOTAL	12.800	0.015
DustTrak DRX 8534124302	011	04/02/2013	13:34:24	0:00:10:00	0.007	mg/m^3	PM1	0.285	0.002
					0.007	mg/m^3	PM2.5	0.289	0.002
					0.008	mg/m^3	RESP	0.308	0.002
					0.011	mg/m^3	PM10	0.515	0.002
					0.024	mg/m^3	TOTAL	0.913	0.002
DustTrak DRX 8534124302	012	04/02/2013	13:59:50	0:00:10:00	0.009	mg/m^3	PM1	0.265	0.002
					0.010	mg/m^3	PM2.5	0.268	0.002

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	012	04/02/2013	13:59:50	0:00:10:00	0.011	mg/m^3	RESP	0.276	0.002
					0.020	mg/m^3	PM10	0.356	0.002
					0.036	mg/m^3	TOTAL	0.537	0.002
DustTrak DRX 8534124302	013	04/02/2013	14:12:20	0:00:10:00	0.032	mg/m^3	PM1	0.350	0.002
					0.034	mg/m^3	PM2.5	0.353	0.002
					0.040	mg/m^3	RESP	0.363	0.002
					0.080	mg/m^3	PM10	0.516	0.002
					0.159	mg/m^3	TOTAL	1.040	0.002

UEC

12 Brewster Road, Framingham, MA 01702
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SAMPLE DATA SHEET

Work on E side of building

PROJECT: Shrewsbury, Sherwood MS **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte **PROJECT NUMBER:** 213 044.00

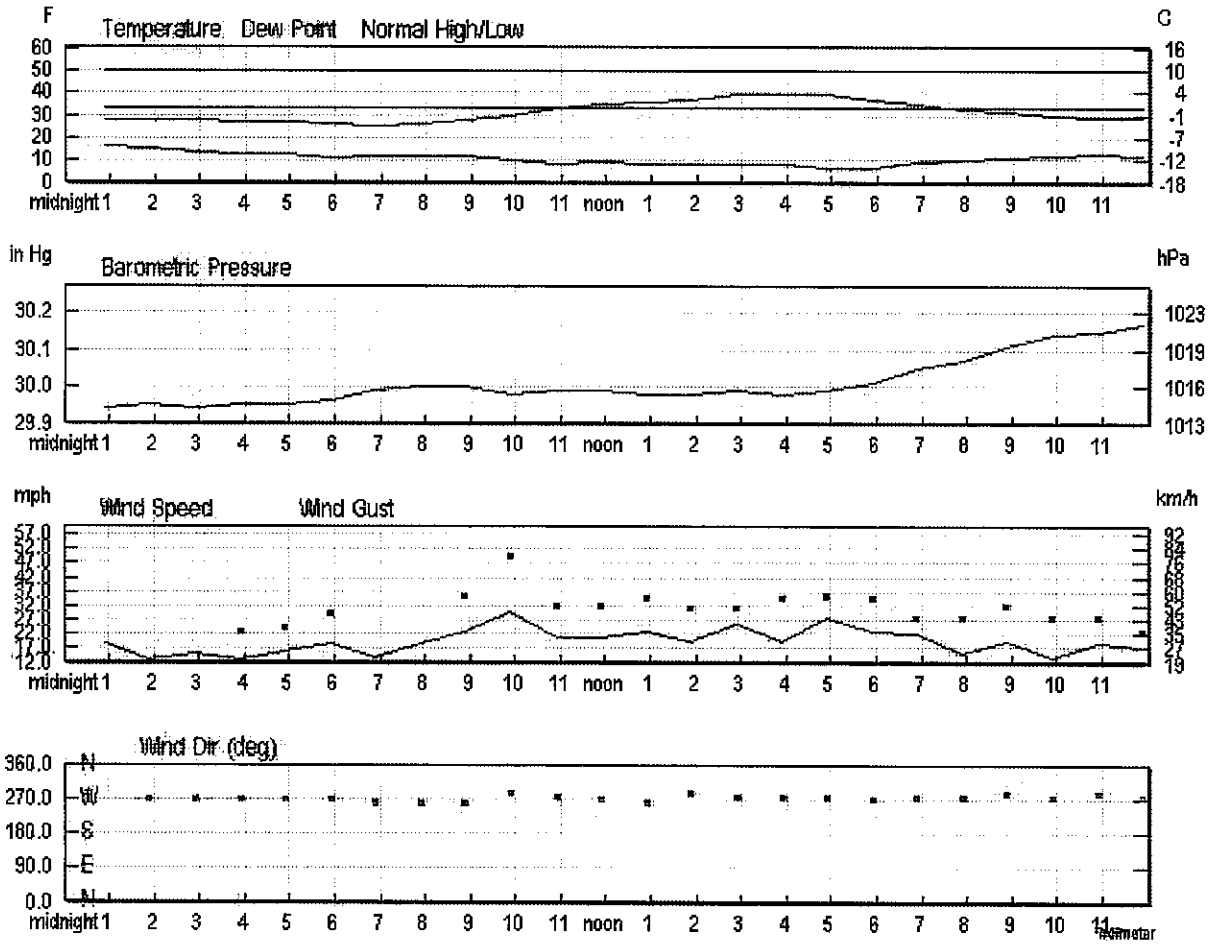
DATE: 4-3-13 **PAGE** 1 **OF**

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry 6. Parking lot dust
1	—	1034	calibrate	—		
2	001	1036	area 2	.018/.010/.007/.006/.006	W	1, 2
3	002	1048	area 1	.233/.116/.067/.053/.051	W	1, 2 visible parking lot dust blowing
4	003	1100	area 7	.067/.021/.017/.014/.014	W	1, 2, 3, 6
5	004	1113	area 5	.035/.027/.013/.012/.012	W	1, 3
6	005	1127	area 3	.102/.053/.031/.026/.025	W	
7	006	1302	area 2	.016/.008/.006/.005/.005	WNW	1
8	007	1315	area 1	.024/.017/.008/.007/.007	WNW	1, 2
9	008	1328	area 7	.053/.026/.015/.014/.013	NW	1, 2
10	009	1341	area 6	.070/.039/.022/.019/.017		1, 3
11	010	1356	area 5	.092/.050/.027/.024/.022		1, 3
12	011	1409	area 3	.034/.019/.012/.011/.011		1, 2
13	012	1423	area 7	.138/.073/.038/.032/.030	W	1, 2
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	4-3-13		


F
Temperature Dew Point Normal High/Low
C
60 50 40 30 20 10 0
16 10 4 -1 -7 -12 -18
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
in Hg
Barometric Pressure
hPa
30.2 30.1 30.0 29.9
1023 1019 1016 1013
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
mph
Wind Speed
Wind Gust
km/h
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
Wind Dir (deg)
360.0 270.0 180.0 90.0 0.0
N W S E N
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/03/2013	10:36:08	0:00:10:00	0.006	mg/m^3	PM1	0.066	0.002
					0.006	mg/m^3	PM2.5	0.066	0.002
					0.007	mg/m^3	RESP	0.072	0.003
					0.010	mg/m^3	PM10	0.099	0.003
					0.018	mg/m^3	TOTAL	0.303	0.003
DustTrak DRX 8534124302	002	04/03/2013	10:48:21	0:00:10:00	0.051	mg/m^3	PM1	1.390	0.002
					0.053	mg/m^3	PM2.5	1.420	0.003
					0.062	mg/m^3	RESP	1.560	0.003
					0.116	mg/m^3	PM10	2.620	0.003
					0.233	mg/m^3	TOTAL	5.360	0.003
DustTrak DRX 8534124302	003	04/03/2013	11:00:25	0:00:10:00	0.014	mg/m^3	PM1	0.235	0.001
					0.014	mg/m^3	PM2.5	0.238	0.001
					0.017	mg/m^3	RESP	0.262	0.001
					0.031	mg/m^3	PM10	0.511	0.001
					0.069	mg/m^3	TOTAL	1.440	0.001
DustTrak DRX 8534124302	004	04/03/2013	11:13:02	0:00:10:00	0.012	mg/m^3	PM1	0.084	0.003
					0.012	mg/m^3	PM2.5	0.085	0.003
					0.013	mg/m^3	RESP	0.090	0.003
					0.022	mg/m^3	PM10	0.116	0.003

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/03/2013	11:13:02	0:00:10:00	0.035	mg/m^3	TOTAL	0.234	0.003
DustTrak DRX 8534124302	005	04/03/2013	11:27:50	0:00:10:00	0.025	mg/m^3	PM1	1.530	0.002
					0.026	mg/m^3	PM2.5	1.630	0.003
					0.031	mg/m^3	RESP	1.960	0.003
					0.053	mg/m^3	PM10	3.130	0.003
					0.102	mg/m^3	TOTAL	4.840	0.003
DustTrak DRX 8534124302	006	04/03/2013	13:02:32	0:00:10:00	0.005	mg/m^3	PM1	0.068	0.002
					0.005	mg/m^3	PM2.5	0.068	0.003
					0.006	mg/m^3	RESP	0.071	0.003
					0.008	mg/m^3	PM10	0.130	0.003
					0.016	mg/m^3	TOTAL	0.475	0.003
DustTrak DRX 8534124302	007	04/03/2013	13:15:20	0:00:10:00	0.007	mg/m^3	PM1	0.109	0.003
					0.007	mg/m^3	PM2.5	0.113	0.003
					0.008	mg/m^3	RESP	0.125	0.003
					0.012	mg/m^3	PM10	0.225	0.003
					0.024	mg/m^3	TOTAL	0.631	0.003
DustTrak DRX 8534124302	008	04/03/2013	13:28:28	0:00:10:00	0.013	mg/m^3	PM1	0.187	0.003
					0.014	mg/m^3	PM2.5	0.189	0.003
					0.015	mg/m^3	RESP	0.198	0.003

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/03/2013	13:28:28	0:00:10:00	0.026	mg/m^3	PM10	0.278	0.003
					0.053	mg/m^3	TOTAL	0.768	0.003
DustTrak DRX 8534124302	009	04/03/2013	13:41:52	0:00:10:00	0.017	mg/m^3	PM1	0.094	0.000
					0.018	mg/m^3	PM2.5	0.100	0.000
					0.022	mg/m^3	RESP	0.118	0.000
					0.039	mg/m^3	PM10	0.245	0.002
					0.070	mg/m^3	TOTAL	0.585	0.002
DustTrak DRX 8534124302	010	04/03/2013	13:56:43	0:00:10:00	0.022	mg/m^3	PM1	0.122	0.000
					0.024	mg/m^3	PM2.5	0.128	0.000
					0.027	mg/m^3	RESP	0.150	0.000
					0.050	mg/m^3	PM10	0.262	0.001
					0.092	mg/m^3	TOTAL	0.465	0.001
DustTrak DRX 8534124302	011	04/03/2013	14:09:59	0:00:10:00	0.011	mg/m^3	PM1	0.877	0.003
					0.011	mg/m^3	PM2.5	0.888	0.003
					0.012	mg/m^3	RESP	0.926	0.003
					0.019	mg/m^3	PM10	1.220	0.003
					0.034	mg/m^3	TOTAL	2.760	0.003
DustTrak DRX 8534124302	012	04/03/2013	14:23:58	0:00:10:00	0.030	mg/m^3	PM1	0.523	0.004
					0.032	mg/m^3	PM2.5	0.535	0.004

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	012	04/03/2013	14:23:58	0:00:10:00	0.038	mg/m^3	RESP	0.583	0.004
					0.073	mg/m^3	PM10	0.823	0.004
					0.138	mg/m^3	TOTAL	1.470	0.004

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SAMPLE DATA SHEET

work on W side of building

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

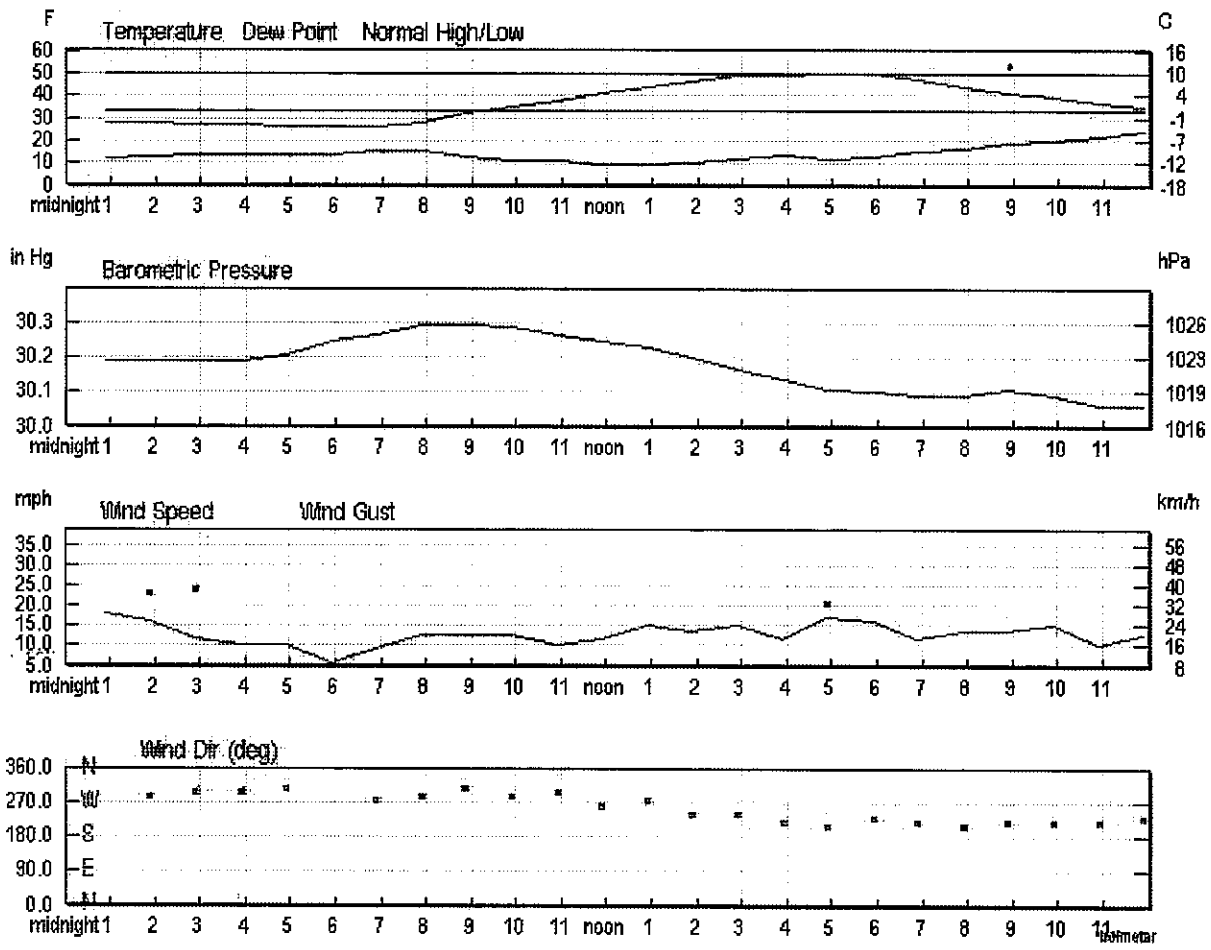
DATE: 4-4-13 — **PAGE** 1 **OF**

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry 6: Parking lot dust
1	—	0936	calibrate	—		
2	001	0941	area 1	.019/.011/.008/.007/.007	W	1, 3
3	002	0956	area 2	.017/.009/.007/.007/.006	W	1, 2
4	003	1011	area 3	.018/.010/.008/.007/.007	W	1
5	004	1025	area 4	.026/.013/.009/.008/.008	W	1, 2
6	005	1040	area 5	.035/.022/.015/.014/.013	W	1 wet-sweeping Parking Lot
7	006	1053	area 4	.070/.035/.020/.018/.018	W	1, 2
8	007	1108	area 2	.012/.008/.006/.006/.006	W	1, 2
9	008	1318	area 3	.049/.024/.014/.013/.012	W	1, 2
10	009	1332	area 4	.016/.009/.007/.007/.007	W	1, 2
11	010	1346	area 5	.128/.062/.035/.032/.031	W	1, 2, 3
12	011	1359	area 6	.039/.020/.013/.012/.012	W	1, 2
13	012	1416	area 5	.097/.048/.026/.023/.022		1, 2
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	4-4-13		


F
Temperature Dew Point Normal High/Low
C
60 50 40 30 20 10 0
16 10 4 -1 -7 -12 -18
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
in Hg
Barometric Pressure
hPa
30.3 30.2 30.1 30.0
1026 1023 1019 1016
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
mph
Wind Speed Wind Gust
km/h
35.0 30.0 25.0 20.0 15.0 10.0 5.0
56 48 40 32 24 16 8
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
Wind Dir (deg)
360.0 270.0 180.0 90.0 0.0
N W S E N
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/04/2013	09:41:49	0:00:10:00	0.007	mg/m^3	PM1	0.055	0.004
					0.007	mg/m^3	PM2.5	0.055	0.004
					0.008	mg/m^3	RESP	0.059	0.005
					0.011	mg/m^3	PM10	0.110	0.005
					0.019	mg/m^3	TOTAL	0.354	0.005
DustTrak DRX 8534124302	002	04/04/2013	09:56:55	0:00:10:00	0.006	mg/m^3	PM1	0.045	0.004
					0.007	mg/m^3	PM2.5	0.045	0.004
					0.007	mg/m^3	RESP	0.047	0.004
					0.009	mg/m^3	PM10	0.116	0.004
					0.017	mg/m^3	TOTAL	0.499	0.004
DustTrak DRX 8534124302	003	04/04/2013	10:11:11	0:00:10:00	0.007	mg/m^3	PM1	0.047	0.003
					0.007	mg/m^3	PM2.5	0.048	0.003
					0.008	mg/m^3	RESP	0.049	0.003
					0.010	mg/m^3	PM10	0.121	0.003
					0.018	mg/m^3	TOTAL	0.159	0.003
DustTrak DRX 8534124302	004	04/04/2013	10:25:46	0:00:10:00	0.008	mg/m^3	PM1	0.126	0.004
					0.008	mg/m^3	PM2.5	0.126	0.004
					0.009	mg/m^3	RESP	0.130	0.004
					0.013	mg/m^3	PM10	0.175	0.004

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/04/2013	10:25:46	0:00:10:00	0.026	mg/m^3	TOTAL	0.571	0.004
DustTrak DRX 8534124302	005	04/04/2013	10:40:43	0:00:10:00	0.013	mg/m^3	PM1	0.106	0.004
					0.014	mg/m^3	PM2.5	0.106	0.004
					0.015	mg/m^3	RESP	0.110	0.004
					0.022	mg/m^3	PM10	0.122	0.005
					0.035	mg/m^3	TOTAL	0.261	0.005
DustTrak DRX 8534124302	006	04/04/2013	10:53:17	0:00:10:00	0.018	mg/m^3	PM1	0.316	0.003
					0.018	mg/m^3	PM2.5	0.322	0.003
					0.020	mg/m^3	RESP	0.346	0.003
					0.035	mg/m^3	PM10	0.487	0.004
					0.070	mg/m^3	TOTAL	1.230	0.004
DustTrak DRX 8534124302	007	04/04/2013	11:08:25	0:00:10:00	0.006	mg/m^3	PM1	0.049	0.004
					0.006	mg/m^3	PM2.5	0.050	0.004
					0.006	mg/m^3	RESP	0.050	0.004
					0.008	mg/m^3	PM10	0.070	0.004
					0.012	mg/m^3	TOTAL	0.182	0.004
DustTrak DRX 8534124302	008	04/04/2013	13:18:42	0:00:10:00	0.012	mg/m^3	PM1	0.795	0.004
					0.013	mg/m^3	PM2.5	0.801	0.004
					0.014	mg/m^3	RESP	0.834	0.004

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/04/2013	13:18:42	0:00:10:00	0.024	mg/m^3	PM10	1.210	0.005
					0.049	mg/m^3	TOTAL	2.740	0.005
DustTrak DRX 8534124302	009	04/04/2013	13:32:03	0:00:10:00	0.007	mg/m^3	PM1	0.046	0.002
					0.007	mg/m^3	PM2.5	0.046	0.002
					0.007	mg/m^3	RESP	0.047	0.003
					0.009	mg/m^3	PM10	0.072	0.003
					0.016	mg/m^3	TOTAL	0.348	0.003
DustTrak DRX 8534124302	010	04/04/2013	13:46:37	0:00:10:00	0.031	mg/m^3	PM1	0.231	0.004
					0.032	mg/m^3	PM2.5	0.241	0.004
					0.035	mg/m^3	RESP	0.286	0.004
					0.062	mg/m^3	PM10	0.595	0.004
					0.128	mg/m^3	TOTAL	1.260	0.006
DustTrak DRX 8534124302	011	04/04/2013	13:59:45	0:00:10:00	0.012	mg/m^3	PM1	0.071	0.004
					0.012	mg/m^3	PM2.5	0.073	0.004
					0.013	mg/m^3	RESP	0.078	0.004
					0.020	mg/m^3	PM10	0.203	0.004
					0.039	mg/m^3	TOTAL	0.389	0.004
DustTrak DRX 8534124302	012	04/04/2013	14:16:07	0:00:10:00	0.022	mg/m^3	PM1	0.103	0.004
					0.023	mg/m^3	PM2.5	0.105	0.004

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	012	04/04/2013	14:16:07	0:00:10:00	0.026	mg/m^3	RESP	0.113	0.005
					0.048	mg/m^3	PM10	0.218	0.006
					0.097	mg/m^3	TOTAL	0.514	0.006

UEC environmental consultants

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SAMPLE DATA SHEET

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

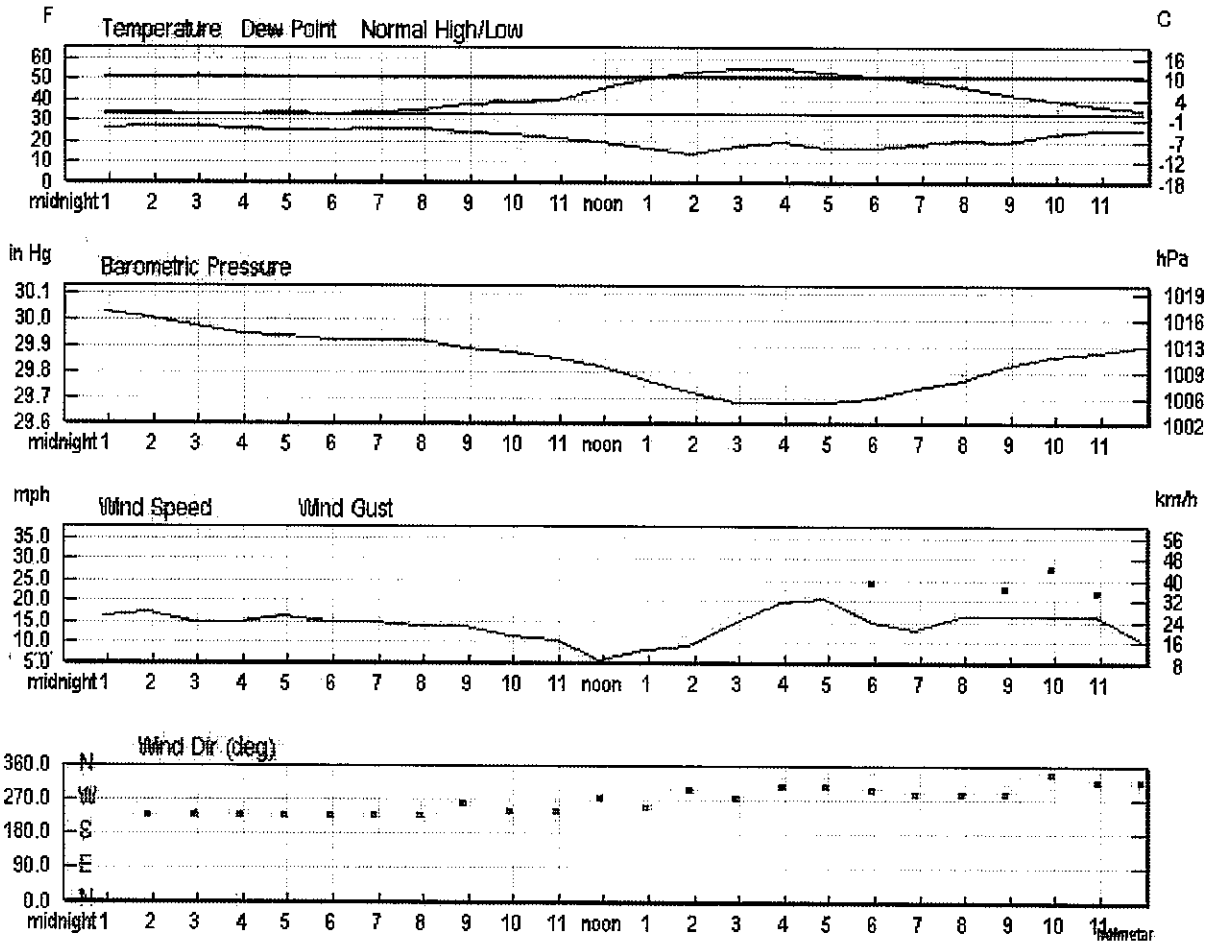
DATE: 4-5-13 — **PAGE** 1 **OF**

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1	—	0950	calibration	—		
2	—	0930	snow flurries/Rain sprinkles			
3	001	0952	area 1	.039/.027/.021/.020/.020	W	
4	002	1007	area 2	.036/.025/.021/.020/.020	WSW	1
5	003	1018	area 3	.023/.020/.018/.018/.017	WSW	1, 3
6	004	1030	area 4	.026/.022/.019/.018/.018	WSW	1, 3
7	005	1042	area 5	.302/.137/.070/.062/.059	WSW	1, 3 Parking lot dust
8	006	1054	area 6	.349/.197/.094/.081/.078	WSW	1, 3 Parking lot dust
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	4-5-13		


F
Temperature
Dew Point
Normal High/Low
C
60 50 40 30 20 10 0
16 10 4 -1 -7 -12 -18
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
in Hg
Barometric Pressure
hPa
30.1 30.0 29.9 29.8 29.7 29.6
1019 1016 1013 1009 1006 1002
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
mph
Wind Speed
Wind Gust
km/h
35.0 30.0 25.0 20.0 15.0 10.0 5.0
56 48 40 32 24 16 8
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11
Wind Dir (deg)
360.0 270.0 180.0 90.0 0.0
N W S E N
midnight 1 2 3 4 5 6 7 8 9 10 11 noon 1 2 3 4 5 6 7 8 9 10 11

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/05/2013	09:52:12	0:00:10:00	0.020	mg/m^3	PM1	0.068	0.014
					0.020	mg/m^3	PM2.5	0.069	0.014
					0.021	mg/m^3	RESP	0.069	0.015
					0.027	mg/m^3	PM10	0.086	0.015
					0.039	mg/m^3	TOTAL	0.248	0.016
DustTrak DRX 8534124302	002	04/05/2013	10:07:28	0:00:10:00	0.020	mg/m^3	PM1	0.063	0.015
					0.020	mg/m^3	PM2.5	0.064	0.015
					0.021	mg/m^3	RESP	0.067	0.015
					0.025	mg/m^3	PM10	0.098	0.016
					0.036	mg/m^3	TOTAL	0.322	0.016
DustTrak DRX 8534124302	003	04/05/2013	10:18:46	0:00:10:00	0.017	mg/m^3	PM1	0.031	0.014
					0.018	mg/m^3	PM2.5	0.031	0.014
					0.018	mg/m^3	RESP	0.033	0.015
					0.020	mg/m^3	PM10	0.051	0.015
					0.023	mg/m^3	TOTAL	0.131	0.015
DustTrak DRX 8534124302	004	04/05/2013	10:30:30	0:00:10:00	0.018	mg/m^3	PM1	0.074	0.015
					0.018	mg/m^3	PM2.5	0.074	0.015
					0.019	mg/m^3	RESP	0.076	0.016
					0.022	mg/m^3	PM10	0.083	0.016

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/05/2013	10:30:30	0:00:10:00	0.026	mg/m^3	TOTAL	0.167	0.016
DustTrak DRX 8534124302	005	04/05/2013	10:42:45	0:00:10:00	0.059	mg/m^3	PM1	0.678	0.016
					0.062	mg/m^3	PM2.5	0.691	0.016
					0.070	mg/m^3	RESP	0.747	0.017
					0.137	mg/m^3	PM10	1.470	0.019
					0.302	mg/m^3	TOTAL	3.420	0.019
DustTrak DRX 8534124302	006	04/05/2013	10:55:02	0:00:10:00	0.078	mg/m^3	PM1	4.170	0.015
					0.081	mg/m^3	PM2.5	4.270	0.015
					0.094	mg/m^3	RESP	4.810	0.015
					0.197	mg/m^3	PM10	9.640	0.015
					0.349	mg/m^3	TOTAL	14.000	0.015

UEC
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SAMPLE DATA SHEET

no exterior demo
Loading metal into truck in SE courtyard

PROJECT: Shrewsbury, Sherwood MS | **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte | **PROJECT NUMBER: 213 044.00**

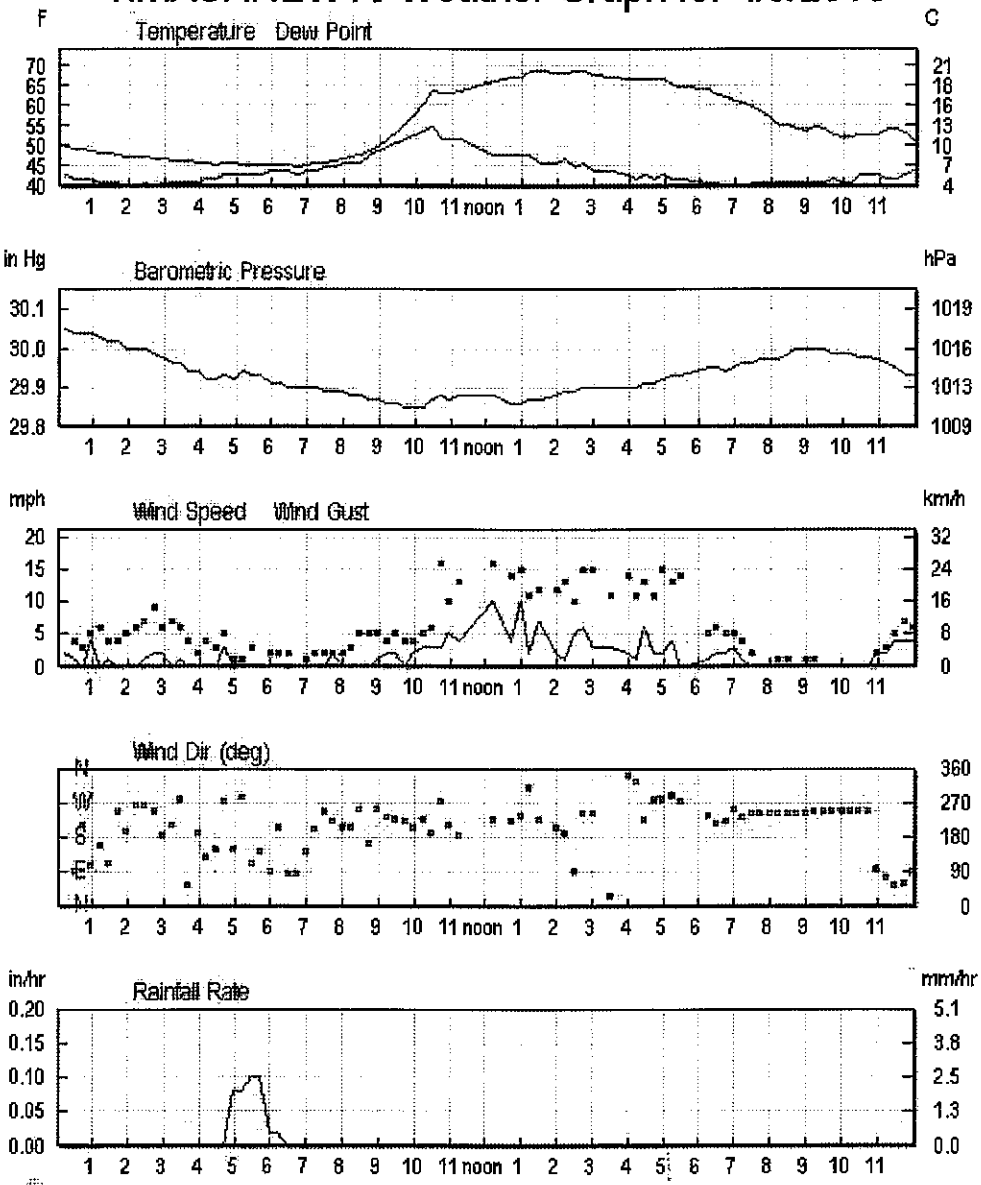
DATE: 4-9-13 | **PAGE** 1 **OF** 1

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1	–	1023	calibrate	~~[illegible]~~	N	
2	001	1025	area 3	.038/.034/.032/.032/.031	W	1
3	002	1037	area 4	.032/.029/.028/.027/.027	W	
4	003	1055	area 5	.058/.040/.032/.031/.030	W	1,3
5	004	1106	area 6	.015/.068/.051/.048/.047	W	1,3
6	005	1118	area 7	.042/.029/.023/.022/.022	N	
7	006	1130	area 1	.028/.021/.018/.018/.018	NW	1
8	007	1143	area 2	.022/.017/.015/.014/.014	W	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012
Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	4-9-13		

KMASHREW10 Weather Graph for 4/9/2013



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Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/09/2013	10:25:34	0:00:10:00	0.031	mg/m^3	PM1	0.083	0.026
					0.032	mg/m^3	PM2.5	0.083	0.027
					0.032	mg/m^3	RESP	0.085	0.028
					0.034	mg/m^3	PM10	0.107	0.028
					0.038	mg/m^3	TOTAL	0.181	0.028
DustTrak DRX 8534124302	002	04/09/2013	10:37:24	0:00:10:00	0.027	mg/m^3	PM1	0.048	0.023
					0.027	mg/m^3	PM2.5	0.048	0.024
					0.028	mg/m^3	RESP	0.052	0.024
					0.029	mg/m^3	PM10	0.067	0.024
					0.032	mg/m^3	TOTAL	0.110	0.024
DustTrak DRX 8534124302	003	04/09/2013	10:55:32	0:00:10:00	0.030	mg/m^3	PM1	0.114	0.022
					0.031	mg/m^3	PM2.5	0.116	0.022
					0.032	mg/m^3	RESP	0.119	0.022
					0.040	mg/m^3	PM10	0.217	0.022
					0.058	mg/m^3	TOTAL	0.448	0.022
DustTrak DRX 8534124302	004	04/09/2013	11:06:58	0:00:10:00	0.047	mg/m^3	PM1	0.409	0.019
					0.048	mg/m^3	PM2.5	0.422	0.020
					0.051	mg/m^3	RESP	0.485	0.021
					0.068	mg/m^3	PM10	1.070	0.021

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/09/2013	11:06:58	0:00:10:00	0.115	mg/m^3	TOTAL	3.600	0.021
DustTrak DRX 8534124302	005	04/09/2013	11:18:52	0:00:10:00	0.022	mg/m^3	PM1	0.166	0.016
					0.022	mg/m^3	PM2.5	0.173	0.016
					0.023	mg/m^3	RESP	0.206	0.016
					0.029	mg/m^3	PM10	0.407	0.016
					0.042	mg/m^3	TOTAL	0.792	0.016
DustTrak DRX 8534124302	006	04/09/2013	11:30:41	0:00:10:00	0.018	mg/m^3	PM1	0.078	0.012
					0.018	mg/m^3	PM2.5	0.079	0.013
					0.018	mg/m^3	RESP	0.082	0.013
					0.021	mg/m^3	PM10	0.117	0.013
					0.028	mg/m^3	TOTAL	0.243	0.013
DustTrak DRX 8534124302	007	04/09/2013	11:43:11	0:00:10:00	0.014	mg/m^3	PM1	0.041	0.011
					0.014	mg/m^3	PM2.5	0.042	0.011
					0.015	mg/m^3	RESP	0.044	0.011
					0.017	mg/m^3	PM10	0.069	0.011
					0.022	mg/m^3	TOTAL	0.195	0.011

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Phone: 508.628.5486 - Fax: 508.628.5488

SAMPLE DATA SHEET

minimal work on east side

PROJECT: Shrewsbury, Sherwood MS

PURCHASE ORDER #:

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte

PROJECT NUMBER: 213 044.00

DATE: 4-10-13

PAGE | **OF**

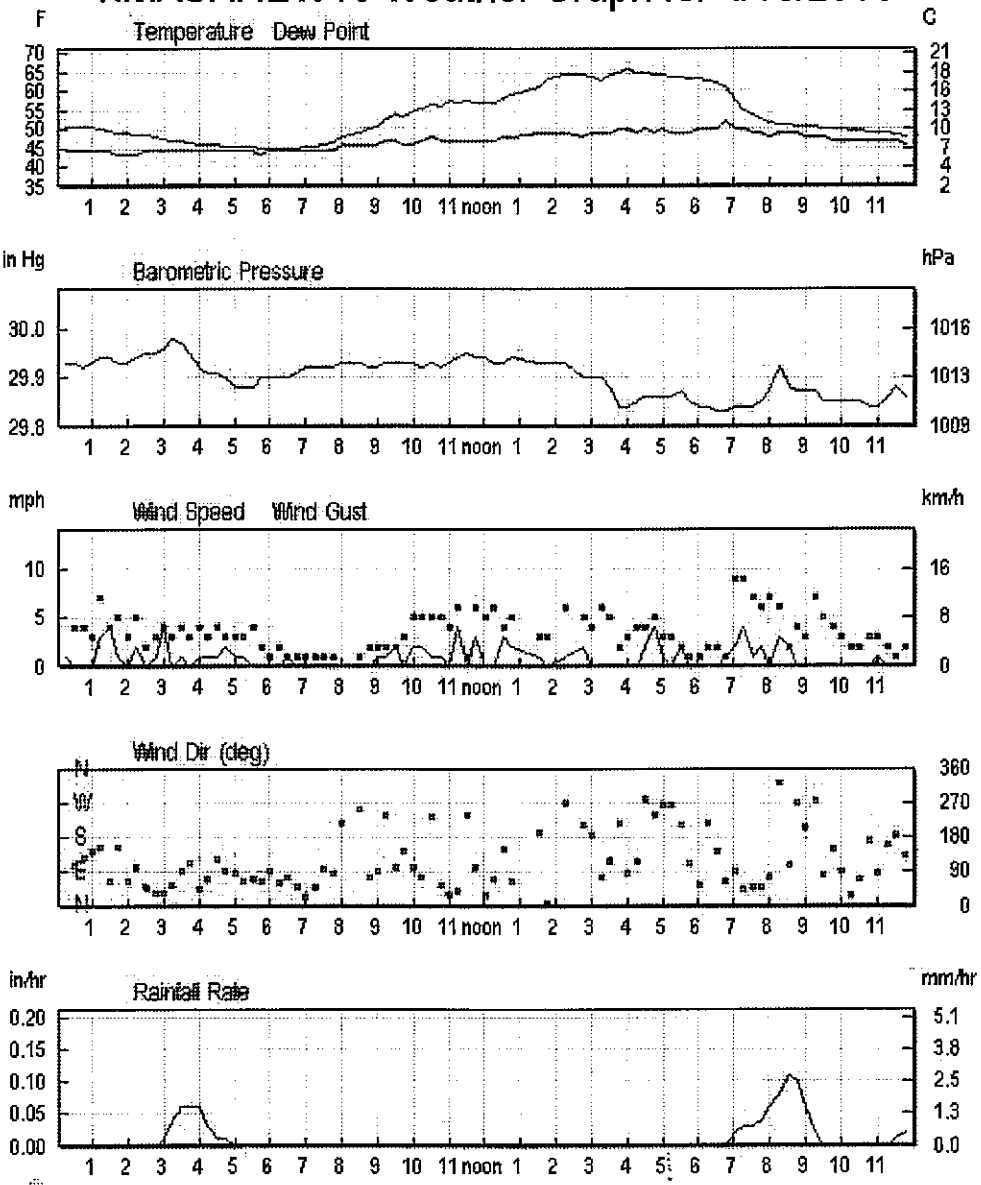
Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1	—	0912	Calibrate	—	W	
2	001	0915	area 1	.017/.016/.015/.015/.015		
3	002	0927	area 2	.015/.014/.013/.013/.013		
4	003	0938	area 3	.014/.012/.011/.011/.011		
5	004	0950	area 4	.012/.012/.011/.011/.011		
6	005	1002	area 5	.020/.015/.013/.013/.013		
7	006	1013	area 6	.017/.014/.013/.013/.013		
8	007	1026	area 7	.015/.013/.012/.012/.012		1, 3
9	008	1243	area 1	.023/.018/.016/.016/.016		
10	009	1254	area 7	.041/.024/.020/.019/.019		
11	010	1306	area 6	.022/.018/.017/.017/.016	W	1, 3
12	011	1318	area 5	.027/.019/.018/.017/.017	W	1, 3
13	012	1330	area 4	.020/.018/.017/.017/.016		
14	013	1343	area 3	.019/.018/.017/.016/.016	W	
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
[signature]	4-10-13		

KMASHREW10 Weather Graph for 4/10/2013



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Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/10/2013	09:15:39	0:00:10:00	0.015	mg/m^3	PM1	0.032	0.012
					0.015	mg/m^3	PM2.5	0.032	0.012
					0.015	mg/m^3	RESP	0.032	0.012
					0.016	mg/m^3	PM10	0.033	0.012
					0.017	mg/m^3	TOTAL	0.078	0.012
DustTrak DRX 8534124302	002	04/10/2013	09:27:33	0:00:10:00	0.013	mg/m^3	PM1	0.037	0.011
					0.013	mg/m^3	PM2.5	0.037	0.011
					0.013	mg/m^3	RESP	0.037	0.011
					0.014	mg/m^3	PM10	0.037	0.011
					0.015	mg/m^3	TOTAL	0.141	0.011
DustTrak DRX 8534124302	003	04/10/2013	09:38:53	0:00:10:00	0.011	mg/m^3	PM1	0.040	0.009
					0.011	mg/m^3	PM2.5	0.041	0.009
					0.011	mg/m^3	RESP	0.041	0.009
					0.012	mg/m^3	PM10	0.041	0.009
					0.014	mg/m^3	TOTAL	0.104	0.009
DustTrak DRX 8534124302	004	04/10/2013	09:50:29	0:00:10:00	0.011	mg/m^3	PM1	0.024	0.005
					0.011	mg/m^3	PM2.5	0.024	0.005
					0.011	mg/m^3	RESP	0.024	0.005
					0.012	mg/m^3	PM10	0.025	0.005

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/10/2013	09:50:29	0:00:10:00	0.012	mg/m^3	TOTAL	0.084	0.005
DustTrak DRX 8534124302	005	04/10/2013	10:02:27	0:00:10:00	0.013	mg/m^3	PM1	0.060	0.009
					0.013	mg/m^3	PM2.5	0.061	0.009
					0.013	mg/m^3	RESP	0.063	0.009
					0.015	mg/m^3	PM10	0.097	0.010
					0.020	mg/m^3	TOTAL	0.338	0.010
DustTrak DRX 8534124302	006	04/10/2013	10:13:50	0:00:10:00	0.013	mg/m^3	PM1	0.043	0.010
					0.013	mg/m^3	PM2.5	0.043	0.010
					0.013	mg/m^3	RESP	0.044	0.010
					0.014	mg/m^3	PM10	0.084	0.010
					0.017	mg/m^3	TOTAL	0.173	0.010
DustTrak DRX 8534124302	007	04/10/2013	10:26:23	0:00:10:00	0.012	mg/m^3	PM1	0.029	0.008
					0.012	mg/m^3	PM2.5	0.029	0.008
					0.012	mg/m^3	RESP	0.030	0.008
					0.013	mg/m^3	PM10	0.048	0.009
					0.015	mg/m^3	TOTAL	0.112	0.010
DustTrak DRX 8534124302	008	04/10/2013	12:43:04	0:00:10:00	0.016	mg/m^3	PM1	0.044	0.012
					0.016	mg/m^3	PM2.5	0.045	0.013
					0.016	mg/m^3	RESP	0.045	0.013

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/10/2013	12:43:04	0:00:10:00	0.018	mg/m^3	PM10	0.046	0.014
					0.023	mg/m^3	TOTAL	0.211	0.014
DustTrak DRX 8534124302	009	04/10/2013	12:54:25	0:00:10:00	0.019	mg/m^3	PM1	0.092	0.013
					0.019	mg/m^3	PM2.5	0.092	0.013
					0.020	mg/m^3	RESP	0.094	0.013
					0.024	mg/m^3	PM10	0.119	0.013
					0.041	mg/m^3	TOTAL	0.324	0.013
DustTrak DRX 8534124302	010	04/10/2013	13:06:23	0:00:10:00	0.016	mg/m^3	PM1	0.072	0.005
					0.017	mg/m^3	PM2.5	0.073	0.005
					0.017	mg/m^3	RESP	0.074	0.005
					0.018	mg/m^3	PM10	0.090	0.010
					0.022	mg/m^3	TOTAL	0.161	0.011
DustTrak DRX 8534124302	011	04/10/2013	13:18:44	0:00:10:00	0.017	mg/m^3	PM1	0.066	0.011
					0.017	mg/m^3	PM2.5	0.067	0.011
					0.018	mg/m^3	RESP	0.068	0.011
					0.019	mg/m^3	PM10	0.136	0.011
					0.027	mg/m^3	TOTAL	1.220	0.011
DustTrak DRX 8534124302	012	04/10/2013	13:30:53	0:00:10:00	0.016	mg/m^3	PM1	0.040	0.013
					0.017	mg/m^3	PM2.5	0.040	0.014

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	012	04/10/2013	13:30:53	0:00:10:00	0.017	mg/m^3	RESP	0.040	0.014
					0.018	mg/m^3	PM10	0.041	0.014
					0.020	mg/m^3	TOTAL	0.134	0.014
DustTrak DRX 8534124302	013	04/10/2013	13:43:30	0:00:10:00	0.016	mg/m^3	PM1	0.036	0.014
					0.016	mg/m^3	PM2.5	0.036	0.014
					0.017	mg/m^3	RESP	0.036	0.014
					0.018	mg/m^3	PM10	0.045	0.015
					0.019	mg/m^3	TOTAL	0.149	0.015

UEC environmental engineers

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SAMPLE DATA SHEET

Demo of east and SE.

PROJECT: Shrewsbury, Sherwood MS

PURCHASE ORDER #:

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte

PROJECT NUMBER: 213 044.00

DATE: 4-12-13

PAGE 1 OF

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1						
2		0900	Raining			
3		1100	continuing to rain			
4		1300	continuing to rain			
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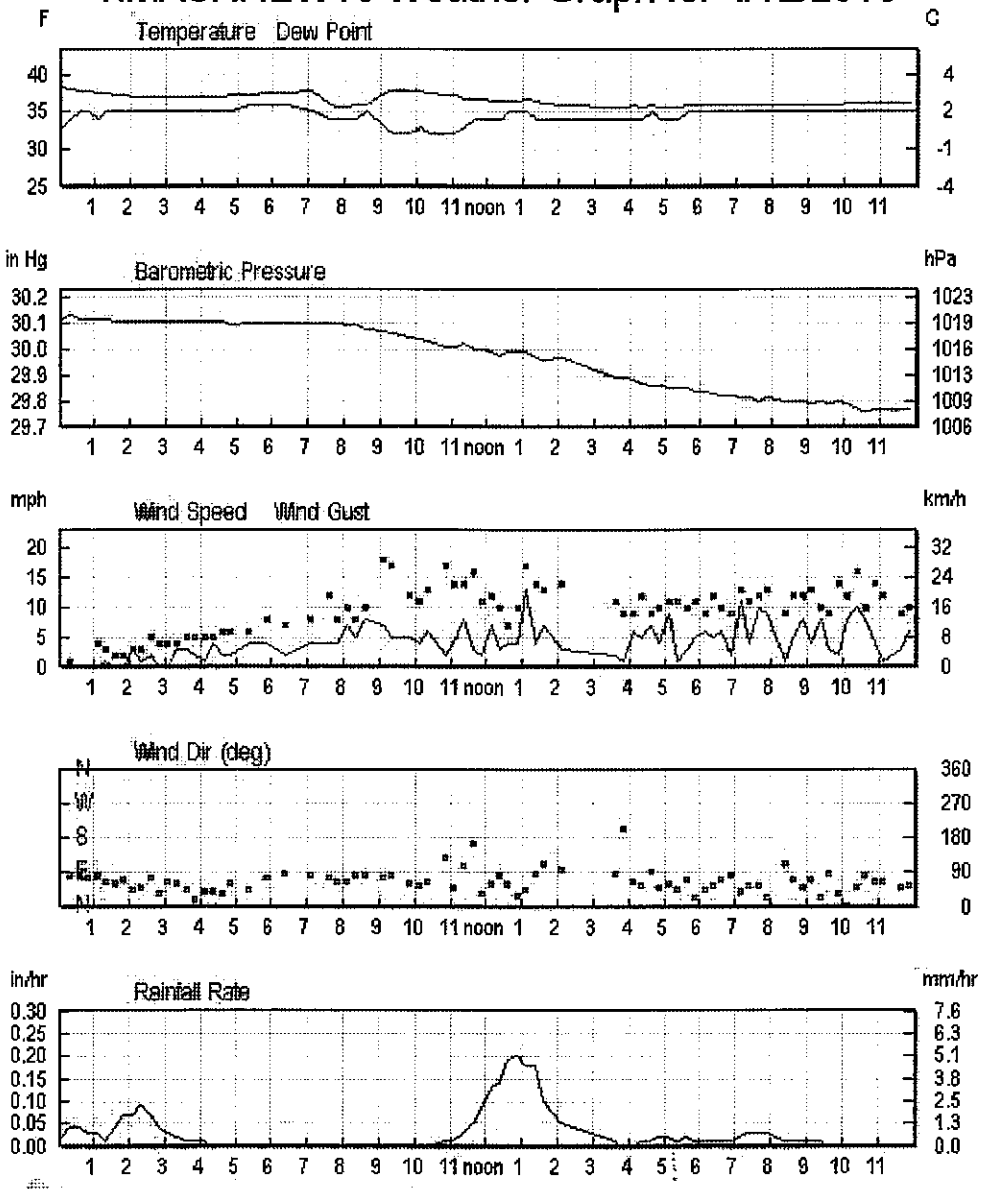
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 minutes

(SIGNATURE)	DATE		
Jm Becotte	4-12-13		

KMASHREW10 Weather Graph for 4/12/2013



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SAMPLE DATA SHEET

Demo of east wing

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

DATE: 4-16-13 — **PAGE** 1 **OF**

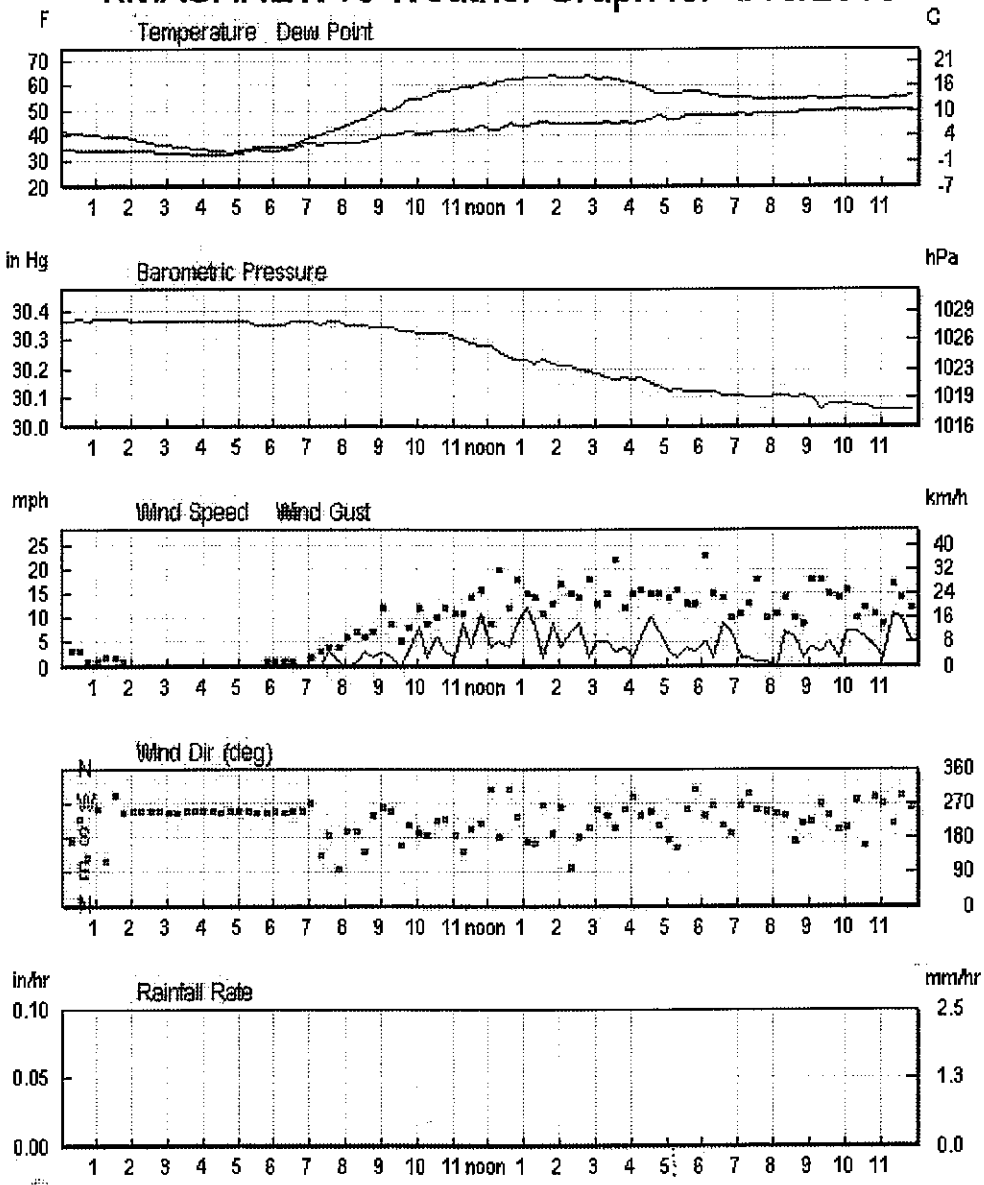
Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1	—	1017	Calibrate	—		
2	001	1019	area 2	.029/.018/.011/.010/.010	W	1, 3
3	002	1032	area 4	.009/.008/.007/.007/.007	W	
4	003	1045	area 5	.022/.015/.011/.010/.010	W	1,3
5	004	1059	area 6	.044/.025/.016/.015/.014	SW	1,3 Truck onsite for PCB loadout
6	005	1113	area 7	.137/.085/.047/.042/.041	SW	1,3 no PCB demo 4
7	006	1125	area 1	.233/.125/.071/.062/.059	SW	1,3,4 no PCB demo
8	007	1306	area 1	.128/.064/.036/.032/.031	SW	1,3, no PCB demo
9	008	1319	area 7	.093/.043/.023/.022/.022	SW	1,3 no PCB demo
10	009	1332	area 6	.259/.108/.059/.053/.052	SW	1,3
11	010	1344	area 5	.345/.163/.082/.072/.069	SW	1,2 PCB masonry removal south wall
12	011	1359	area 4	.016/.011/.009/.009/.009	SW	1,2
13	012	1412	area 3	.018/.012/.010/.009/.009	SW	
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
[signature]	4-16-13		

KMASHREW10 Weather Graph for 4/16/2013



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Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/16/2013	10:19:28	0:00:10:00	0.010	mg/m^3	PM1	0.112	0.005
					0.010	mg/m^3	PM2.5	0.119	0.005
					0.011	mg/m^3	RESP	0.143	0.005
					0.018	mg/m^3	PM10	0.319	0.005
					0.029	mg/m^3	TOTAL	0.660	0.005
DustTrak DRX 8534124302	002	04/16/2013	10:32:12	0:00:10:00	0.007	mg/m^3	PM1	0.047	0.005
					0.007	mg/m^3	PM2.5	0.047	0.005
					0.007	mg/m^3	RESP	0.048	0.005
					0.008	mg/m^3	PM10	0.052	0.005
					0.009	mg/m^3	TOTAL	0.081	0.005
DustTrak DRX 8534124302	003	04/16/2013	10:45:30	0:00:10:00	0.010	mg/m^3	PM1	0.052	0.006
					0.010	mg/m^3	PM2.5	0.053	0.006
					0.011	mg/m^3	RESP	0.056	0.006
					0.015	mg/m^3	PM10	0.086	0.006
					0.022	mg/m^3	TOTAL	0.221	0.006
DustTrak DRX 8534124302	004	04/16/2013	10:59:26	0:00:10:00	0.014	mg/m^3	PM1	0.145	0.006
					0.015	mg/m^3	PM2.5	0.149	0.006
					0.016	mg/m^3	RESP	0.161	0.007
					0.025	mg/m^3	PM10	0.205	0.007

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/16/2013	10:59:26	0:00:10:00	0.044	mg/m^3	TOTAL	0.442	0.007
DustTrak DRX 8534124302	005	04/16/2013	11:13:46	0:00:10:00	0.041	mg/m^3	PM1	0.763	0.008
					0.042	mg/m^3	PM2.5	0.771	0.009
					0.047	mg/m^3	RESP	0.807	0.009
					0.085	mg/m^3	PM10	1.230	0.010
					0.187	mg/m^3	TOTAL	3.390	0.010
DustTrak DRX 8534124302	006	04/16/2013	11:25:40	0:00:10:00	0.059	mg/m^3	PM1	0.641	0.009
					0.062	mg/m^3	PM2.5	0.658	0.009
					0.071	mg/m^3	RESP	0.730	0.009
					0.125	mg/m^3	PM10	1.320	0.011
					0.233	mg/m^3	TOTAL	2.810	0.011
DustTrak DRX 8534124302	007	04/16/2013	13:06:51	0:00:10:00	0.031	mg/m^3	PM1	0.620	0.006
					0.032	mg/m^3	PM2.5	0.637	0.007
					0.036	mg/m^3	RESP	0.694	0.007
					0.064	mg/m^3	PM10	1.390	0.008
					0.128	mg/m^3	TOTAL	3.130	0.008
DustTrak DRX 8534124302	008	04/16/2013	13:19:22	0:00:10:00	0.022	mg/m^3	PM1	0.278	0.007
					0.022	mg/m^3	PM2.5	0.284	0.008
					0.025	mg/m^3	RESP	0.305	0.008

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/16/2013	13:19:22	0:00:10:00	0.043	mg/m^3	PM10	0.519	0.008
					0.095	mg/m^3	TOTAL	1.620	0.008
DustTrak DRX 8534124302	009	04/16/2013	13:32:43	0:00:10:00	0.052	mg/m^3	PM1	1.050	0.007
					0.053	mg/m^3	PM2.5	1.050	0.007
					0.059	mg/m^3	RESP	1.080	0.008
					0.108	mg/m^3	PM10	1.360	0.008
					0.250	mg/m^3	TOTAL	2.480	0.008
DustTrak DRX 8534124302	010	04/16/2013	13:44:56	0:00:10:00	0.069	mg/m^3	PM1	1.640	0.004
					0.072	mg/m^3	PM2.5	1.670	0.005
					0.082	mg/m^3	RESP	1.790	0.005
					0.163	mg/m^3	PM10	2.970	0.008
					0.345	mg/m^3	TOTAL	6.930	0.009
DustTrak DRX 8534124302	011	04/16/2013	13:59:41	0:00:10:00	0.009	mg/m^3	PM1	0.060	0.007
					0.009	mg/m^3	PM2.5	0.061	0.007
					0.009	mg/m^3	RESP	0.066	0.007
					0.011	mg/m^3	PM10	0.109	0.007
					0.016	mg/m^3	TOTAL	0.317	0.007
DustTrak DRX 8534124302	012	04/16/2013	14:12:27	0:00:10:00	0.009	mg/m^3	PM1	0.121	0.006
					0.009	mg/m^3	PM2.5	0.123	0.007

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	012	04/16/2013	14:12:27	0:00:10:00	0.010	mg/m^3	RESP	0.124	0.007
					0.012	mg/m^3	PM10	0.151	0.007
					0.018	mg/m^3	TOTAL	0.456	0.007

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SAMPLE DATA SHEET

north side demo

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

DATE: 4-17-13 — **PAGE** 1 **OF**

Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1	—	1252	calibrate	—		
2	001	1253	area 2	.014/.007/.005/.004/.004	N	1, 3
3	002	1307	area 4	.060/.029/.015/.013/.013	NW	1,2,3
4	003	1320	area 5	.397/.198/.094/.079/.075	N	1,3 dry Parking lot
5	004	1333	area 6	.369/.156/.073/.065/.063	N	1,3 dry parking lot
6	005	1346	area 7	.025/.009/.005/.005/.005	N	1,3
7	006	1358	area 1	.009/.005/.003/.003/.003	N	1,3
8	007	1411	area 5	.013/.007/.005/.005/.005	N	1,3
9	008	1423	area 4	.071/.039/.021/.018/.018	NE	1,3
10						
11						
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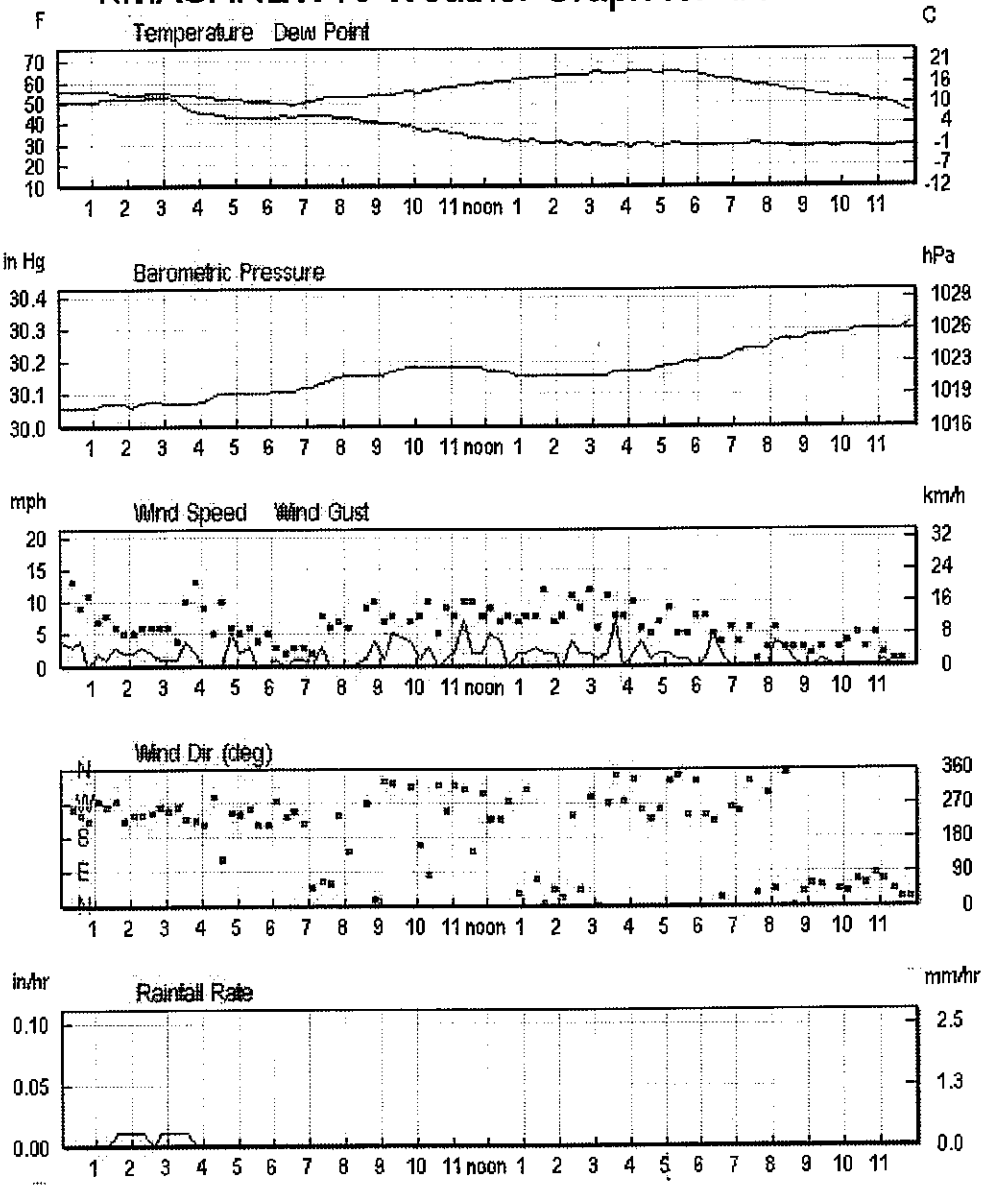
COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	4-17-13		

KMASHREW10 Weather Graph for 4/17/2013



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Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/17/2013	12:53:42	0:00:10:00	0.004	mg/m^3	PM1	0.140	0.001
					0.004	mg/m^3	PM2.5	0.142	0.001
					0.005	mg/m^3	RESP	0.152	0.001
					0.007	mg/m^3	PM10	0.287	0.001
					0.014	mg/m^3	TOTAL	1.020	0.001
DustTrak DRX 8534124302	002	04/17/2013	13:07:31	0:00:10:00	0.013	mg/m^3	PM1	0.487	0.000
					0.013	mg/m^3	PM2.5	0.496	0.000
					0.015	mg/m^3	RESP	0.537	0.000
					0.029	mg/m^3	PM10	0.894	0.000
					0.060	mg/m^3	TOTAL	2.330	0.000
DustTrak DRX 8534124302	003	04/17/2013	13:20:14	0:00:10:00	0.075	mg/m^3	PM1	1.680	0.002
					0.079	mg/m^3	PM2.5	1.750	0.002
					0.094	mg/m^3	RESP	2.000	0.002
					0.198	mg/m^3	PM10	4.330	0.002
					0.397	mg/m^3	TOTAL	8.090	0.002
DustTrak DRX 8534124302	004	04/17/2013	13:33:41	0:00:10:00	0.063	mg/m^3	PM1	1.170	0.002
					0.065	mg/m^3	PM2.5	1.190	0.002
					0.073	mg/m^3	RESP	1.290	0.002
					0.156	mg/m^3	PM10	2.490	0.002

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/17/2013	13:33:41	0:00:10:00	0.369	mg/m^3	TOTAL	6.920	0.002
DustTrak DRX 8534124302	005	04/17/2013	13:46:33	0:00:10:00	0.005	mg/m^3	PM1	0.150	0.001
					0.005	mg/m^3	PM2.5	0.151	0.001
					0.005	mg/m^3	RESP	0.157	0.001
					0.009	mg/m^3	PM10	0.290	0.001
					0.025	mg/m^3	TOTAL	1.130	0.001
DustTrak DRX 8534124302	006	04/17/2013	13:58:08	0:00:10:00	0.003	mg/m^3	PM1	0.039	0.001
					0.003	mg/m^3	PM2.5	0.040	0.001
					0.003	mg/m^3	RESP	0.043	0.001
					0.005	mg/m^3	PM10	0.080	0.002
					0.009	mg/m^3	TOTAL	0.170	0.002
DustTrak DRX 8534124302	007	04/17/2013	14:11:07	0:00:10:00	0.005	mg/m^3	PM1	0.052	0.002
					0.005	mg/m^3	PM2.5	0.054	0.002
					0.005	mg/m^3	RESP	0.060	0.002
					0.007	mg/m^3	PM10	0.117	0.002
					0.013	mg/m^3	TOTAL	0.224	0.002
DustTrak DRX 8534124302	008	04/17/2013	14:23:31	0:00:10:00	0.018	mg/m^3	PM1	0.571	0.000
					0.018	mg/m^3	PM2.5	0.599	0.001
					0.021	mg/m^3	RESP	0.737	0.001

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/17/2013	14:23:31	0:00:10:00	0.039	mg/m^3	PM10	1.880	0.002
					0.071	mg/m^3	TOTAL	3.520	0.002

UEC
12 Brewster Road, Framingham, MA 01702
Phone: 508.628.5486 - Fax: 508.628.5488

SAMPLE DATA SHEET

Demo of north side

PROJECT: Shrewsbury, Sherwood MS — **PURCHASE ORDER #:**

Exterior Perimeter Dust Sampling

SAMPLED BY: Jason Becotte — **PROJECT NUMBER:** 213 044.00

DATE: 4-18-13 — **PAGE** 1 **OF**

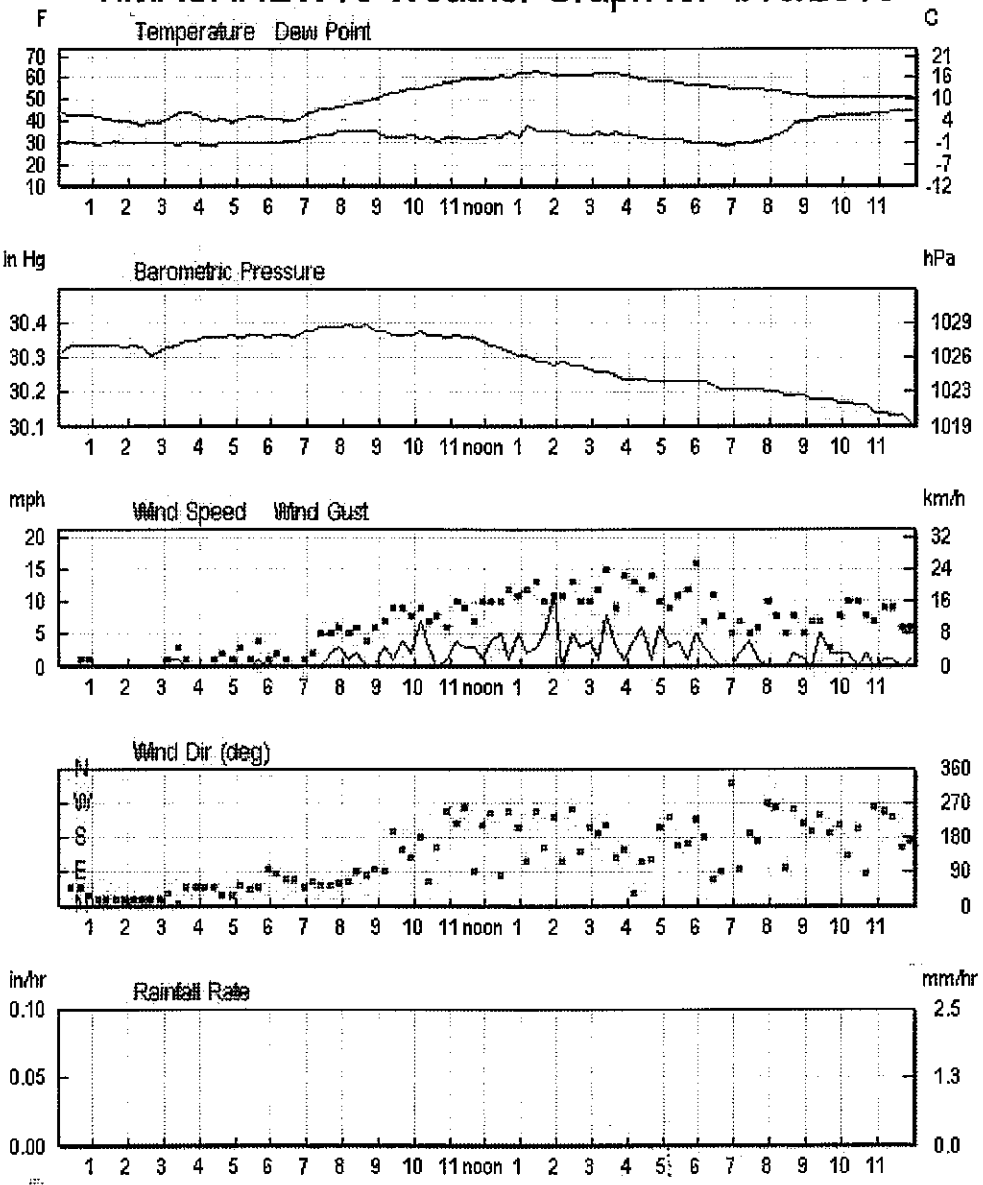
Line	Test #	Time on	Location	Total / PM10 / Resp / PM2.5 / PM1 (Averages for test) (mg/m³)	Wind speed/ direction	Notes 1: Diesel equipment in use 2: Removing windows/masonry 3: Other demo in area 4: Visible emissions 5: Wet-cutting masonry
1	—	1255	Calibrate	—		
2	001	1259	area 2	.497/.247/.120/.102/.098	SW	1,3,4
3	002	1312	area 1	.116/.057/.033/.029/.028	SW	1,3,4
4	003	1327	area 7	.021/.011/.008/.008/.008	SW	1,3
5	004	1339	area 6	.015/.009/.007/.007/.006	SW	1,3
6	005	1351	area 5	.016/.010/.008/.007/.007	SW	1,3
7	006	1403	area 4	.141/.082/.042/.035/.034	SW	1,3 dry parking lot dust
8	007	1419	area 1	.346/.164/.086/.076/.073	SW	1,3,4 no water
9	008	1433	area 2	.718/.318/.158/.138/.133	SW	1,3,4 no water
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

COMMENTS: TSI DustTrak DRX - Model 8534 - S/N 8534124302; Factory Cal. Date October 24, 2012

Duration of each test 10 **minutes**

(SIGNATURE)	DATE		
Jason Becotte	4-18-13		

KMASHREW10 Weather Graph for 4/18/2013



Weather Underground®
wunderground.com

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	001	04/18/2013	12:59:40	0:00:10:00	0.098	mg/m^3	PM1	1.050	0.004
					0.102	mg/m^3	PM2.5	1.090	0.004
					0.120	mg/m^3	RESP	1.250	0.004
					0.247	mg/m^3	PM10	2.560	0.004
					0.497	mg/m^3	TOTAL	5.250	0.004
DustTrak DRX 8534124302	002	04/18/2013	13:12:43	0:00:10:00	0.028	mg/m^3	PM1	0.270	0.004
					0.029	mg/m^3	PM2.5	0.275	0.004
					0.033	mg/m^3	RESP	0.292	0.004
					0.057	mg/m^3	PM10	0.539	0.005
					0.116	mg/m^3	TOTAL	1.290	0.005
DustTrak DRX 8534124302	003	04/18/2013	13:27:10	0:00:10:00	0.008	mg/m^3	PM1	0.229	0.004
					0.008	mg/m^3	PM2.5	0.230	0.004
					0.008	mg/m^3	RESP	0.235	0.004
					0.011	mg/m^3	PM10	0.325	0.004
					0.021	mg/m^3	TOTAL	0.789	0.004
DustTrak DRX 8534124302	004	04/18/2013	13:39:13	0:00:10:00	0.006	mg/m^3	PM1	0.044	0.004
					0.007	mg/m^3	PM2.5	0.044	0.004
					0.007	mg/m^3	RESP	0.046	0.004
					0.009	mg/m^3	PM10	0.097	0.004

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	004	04/18/2013	13:39:13	0:00:10:00	0.015	mg/m^3	TOTAL	0.182	0.004
DustTrak DRX 8534124302	005	04/18/2013	13:51:19	0:00:10:00	0.007	mg/m^3	PM1	0.059	0.004
					0.007	mg/m^3	PM2.5	0.059	0.004
					0.008	mg/m^3	RESP	0.062	0.004
					0.010	mg/m^3	PM10	0.071	0.004
					0.016	mg/m^3	TOTAL	0.187	0.004
DustTrak DRX 8534124302	006	04/18/2013	14:03:16	0:00:10:00	0.034	mg/m^3	PM1	5.360	0.004
					0.035	mg/m^3	PM2.5	5.500	0.004
					0.042	mg/m^3	RESP	6.100	0.004
					0.082	mg/m^3	PM10	10.200	0.004
					0.141	mg/m^3	TOTAL	17.100	0.004
DustTrak DRX 8534124302	007	04/18/2013	14:19:27	0:00:10:00	0.073	mg/m^3	PM1	1.180	0.004
					0.076	mg/m^3	PM2.5	1.220	0.004
					0.086	mg/m^3	RESP	1.370	0.004
					0.164	mg/m^3	PM10	2.620	0.005
					0.346	mg/m^3	TOTAL	5.760	0.005
DustTrak DRX 8534124302	008	04/18/2013	14:33:26	0:00:10:00	0.133	mg/m^3	PM1	1.190	0.004
					0.138	mg/m^3	PM2.5	1.230	0.004
					0.158	mg/m^3	RESP	1.380	0.004

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8534124302	008	04/18/2013	14:33:26	0:00:10:00	0.318	mg/m^3	PM10	2.800	0.004
					0.718	mg/m^3	TOTAL	7.070	0.004

APPENDIX D

D 25197614

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP5088418513
2. Page 1 of 1 of 1
3. Emergency Response Phone: 8002579300
4. Manifest Tracking Number: 003901903 JJK

5. Generator's Name and Mailing Address
Shrewsbury Public Schools
100 Maple Avenue
Shrewsbury MA 01545
Attn Michael Doherty
Generator's Phone: 508 8418613

Generator's Site Address (if different than mailing address)
Sherwood Middle School
30 Sherwood Street
Shrewsbury MA 01545

6. Transporter 1 Company Name: RED Technologies, LLC.
U.S. EPA ID Number: CTR000505958

7. Transporter 2 Company Name: CLEAN HARBORS ENV SERVICES
U.S. EPA ID Number: MAD039322250

8. Designated Facility Name and Site Address
Clean Harbors Environmental Services, Inc.
1879 Spring Grove Avenue
Cincinnati OH 45232
Facility's Phone: 513 6816242
U.S. EPA ID Number: OHD000818629

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1. Non-DOT Regulated PCB's (<1lb PCB, TSCA exempt small capacitors/ballast)	001	DM	020	K	~~NONE~~ MA02 CR01	
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
1)(S) CH profile # CH627651
Weight in section 11 is estimated!
OSD 04-25-13 RED-001-13

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 05 Day 01 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mark Andrade Jr.
Signature: Mark Andrade Jr.
Month 05 Day 01 Year 13

Transporter 2 Printed/Typed Name: JASON DAIGLE, AS AGENT FOR
Signature:
Month 05 Day 02 Year 13

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: JASON D
Signature:
Month 05 Day 08 Year 13

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: MPS088418513

22. Page: 2

23. Manifest Tracking Number: 003901903JJK

24. Generator's Name: Shrewsbury Public Schools

25. Transporter 3 Company Name: Clean Harbors Environmental Services, Inc. U.S. EPA ID Number: MAD039322250

26. Transporter _____ Company Name: U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Bernard Proper. Signature: Month 5 Day 3 Year 13

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

273469A

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 860-257-8300	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000505958

7. Transporter 2 Company Name: PRICE TRUCKING, INC — U.S. EPA ID Number: NYD067765574

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-868-3435
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-DOT Regulated, NON- RCRA, PCB Bulk Product Waste	001	CM	6,360	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

Con #3080

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty — Signature: Michael Doherty — Month 4 Day 1 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman — Signature: Carl Sherman — Month 04 Day 01 Year 13
Transporter 2 Printed/Typed Name: Robert Regan — Signature: Robert Regan — Month 4 Day 2 Year 13

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Sharon Dunne — Signature: [signature] — Month 4 Day 4 Year 13

273468A

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-257-8300	4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address)
Same

6. Transporter 1 Company Name
RED Technologies LLC
U.S. EPA ID Number CTR000505958

7. Transporter 2 Company Name
PRICE TRUCKING, INC.
U.S. EPA ID Number NYD046765574

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
330-868-3435
Facility's Phone:
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-DOT Regulated, NON-RCRA, PCB Bulk Product Waste	001	CM	5,450	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

Car # 3072

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 4 Day 1 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 04 Day 01 Year 13

Transporter 2 Printed/Typed Name: Robert Regan
Signature: Robert Regan
Month 4 Day 2 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Sharon Dunne
Signature:
Month 4 Day 4 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

273532A

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone: 860-257-6300
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000505956

7. Transporter 2 Company Name: PRICE TRUCKING, INC — U.S. EPA ID Number: NYD046765574

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-DOT Regulated, NON RCRA, PCB Bulk Product Waste	001	CM	8636	K	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Weight in Section 11 is estimate
RED# 3079

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty — Signature: Michael Doherty — Month 3 Day 28 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Andrade Jr. — Signature: Mark Andrade Jr. — Month 3 Day 28 Year 13
Transporter 2 Printed/Typed Name: James Simpson — Signature: James Simpson — Month 3 Day 29 Year 13

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Kristina Otis — Signature: [illegible] — Month 4 Day 5 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

273557A

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-257-6300	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address)
Same

6. Transporter 1 Company Name
RED Technologies LLC
U.S. EPA ID Number CTR000505958

7. Transporter 2 Company Name
Red Technologies LLC
U.S. EPA ID Number CTR000505958

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-DOT Regulated, NON- RCRA, PCB Bulk Product Waste	001	CM	5,500	K	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

Car # 3082

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 4 Day 3 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 04 Day 02 Year 13
Transporter 2 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 04 Day 05 Year 13

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Ky Bhadoriya
Signature: [illegible]
Month 4 Day 5 Year 13

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

273556A

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 860-257-8300	4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-9513

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000505958

7. Transporter 2 Company Name: Red Technologies LLC — U.S. EPA ID Number: CTR000505958

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435

U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-DOT Regulated, NON-RCRA, PCB Bulk Product Waste	001	CM	8,200	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

Car # 3063

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty — Signature: Michael Doherty — Month 4 Day 2 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman — Signature: Carl Sherman — Month 04 Day 02 Year 13
Transporter 2 Printed/Typed Name: Carl Sherman — Signature: Carl Sherman — Month 04 Day 05 Year 13

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Kristina Lofris — Signature: K Lofris — Month 4 Day 5 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

213533A

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 800-257-0300	4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000605050

7. Transporter 2 Company Name: PRICE TRUCKING INC — U.S. EPA ID Number: NYD046765574

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-DOT Regulated, NON RCRA, PCB Bulk Product Waste	001	CM	8,010	K	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Weight in Section 11 is Estimate.

RED # 3093

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty — Signature: Michael Doherty — Month 3 Day 28 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Andrade Jr. — Signature: Mark Andrade Jr — Month 3 Day 28 Year 13
Transporter 2 Printed/Typed Name: James Simpson — Signature: James Simpson — Month 3 Day 29 Year 13

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Kristina Lotts — Signature: Kristina Lotts — Month 4 Day 5 Year 13

GENERATOR — TRANSPORTER — INTL — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

273593A

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone: 800-257-0300

4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505958

7. Transporter 2 Company Name: Price Trucking
U.S. EPA ID Number: NYD076765574

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-DOT Regulated, NON-RCRA, PCB Bulk Product Waste	.001	CM		K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

#
Con 3089

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 4 Day 5 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Andrew Plante
Signature: Andrew Plante
Month 04 Day 03 Year 13

Transporter 2 Printed/Typed Name: Robert Regan
Signature: Robert Regan
Month 4 Day 5 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Sharon Dunne
Signature:
Month 4 Day 8 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

273595A

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number:
2. Page 1 of 1
3. Emergency Response Phone: 800-267-8300
4. Waste Tracking Number:

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505958

7. Transporter 2 Company Name: Price Trucking
U.S. EPA ID Number: NYD046765574

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-DOT Regulated, NON-RCRA, PCB Bulk Product Waste	001	CM	7,200	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

Car # 3062

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 4 Day 4 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 04 Day 04 Year 13

Transporter 2 Printed/Typed Name: Robert Regan
Signature: Robert Regan
Month 4 Day 5 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Sharon Dunn
Signature: [illegible]
Month 4 Day 8 Year 13

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

273649

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-257-8900	4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address)
Same

6. Transporter 1 Company Name
RED Technologies LLC
U.S. EPA ID Number CTR000505958

7. Transporter 2 Company Name
Price Trucking
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises
8000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-DOT Regulated, NON-RCRA, PCB Bulk Product Waste	001	CM	7,200	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

Car # 3075

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 4 Day 4 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 04 Day 04 Year 13

Transporter 2 Printed/Typed Name: James Simpson
Signature: James Simpson
Month 4 Day 8 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Kristina Otts
Signature: Kristina Otts
Month 4 Day 9 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

273656

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 860-257-6300	4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address)
Same

6. Transporter 1 Company Name
RED Technologies LLC
U.S. EPA ID Number CTR000505958

7. Transporter 2 Company Name
Red Technologies LLC
U.S. EPA ID Number CTR000505958

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON-DOT Regulated, NON- RCRA, PCB Bulk Product Waste		CM	5,760	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

3095

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 4 Day 5 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kevin ED Miston
Signature: Kevin Schaton
Month 4 Day 5 Year 13
Transporter 2 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 04 Day 09 Year 13

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Kristina Lofeis
Signature: K Lofeis
Month 4 Day 9 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

273657

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone: 860-257-6300
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address): Same

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000505958

7. Transporter 2 Company Name: Red Technologies LLC — U.S. EPA ID Number: CTR000505958

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-868-3435
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-DOT Regulated, NON-RCRA, PCB Bulk Product Waste	001	CM	7,260	K	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

3084

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty — Signature: Michael Doherty — Month 4 Day 5 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kevin Edmiston — Signature: [signature] — Month 4 Day 5 Year 13

Transporter 2 Printed/Typed Name: Carl Sherman — Signature: Carl Sherman — Month 04 Day 09 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.

Printed/Typed Name: [illegible] — Signature: [signature] — Month 4 Day 9 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

273698A

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 860-257-8300	4. Waste Tracking Number

5. Generator's Name and Mailing Address
Sherwood Middle School
30 Sherwood Street
Shrewsbury, MA 01545
Generator's Phone: 508-841-8513

Generator's Site Address (if different than mailing address)
Same

6. Transporter 1 Company Name
RED Technologies LLC
U.S. EPA ID Number CTR000505958

7. Transporter 2 Company Name
Price trucking
U.S. EPA ID Number NYD046265574

8. Designated Facility Name and Site Address
Minerva Enterprises
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-DOT Regulated, NON-RCRA, PCB Bulk Product Waste	.001	CM	8,500	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Weight in section 11 is estimate

#3070

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Michael Doherty
Signature: Michael Doherty
Month 4 Day 9 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kevin Edmiston
Signature: Kevin Edmiston
Month 4 Day 9 Year 13

Transporter 2 Printed/Typed Name: Robert Regan
Signature: Robert Regan
Month 4 Day 9 Year 13

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.

Printed/Typed Name: Kim Roberts
Signature: [signature]
Month 4 Day 10 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY